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Characteristics: Needs Assessment: Outcomes of Education: Personnel: Postsecondary Education: Program Costs: Program Descriptions: Program Effectiveness: Resource Allocation; Schools:

Secondary Education: Staff Utilization: State of the

Art Reviews: State Programs: *Student

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Objectives: Tables (Data): *Vocational Education

ABSTRACT

Designed to describe the condition of vocational education from both an institutional and student perspective, this report examines vocational education within the context of the formal education system and related institutions. A total of 40 charts and 166 tables reflect data collected primarily from the 1978 calendar year and the 1978-79 school year. Data are organized into the following subject areas: institutional providers of vocational education, enrollment in vocational education, profiles of vocational students, vocational education facilities, vocational education staff, allocations and expenditures for vocational education, student choice of program, costs facing vocational students, and outcomes of vocational education: (MM)

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Mary A. Golladay and Rolf M. Wulfsberg

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Highlights

- Of the 28,000 identified institutional providers of vocational educations over 16,000 are secondary schools.
- Of the nearly 20 million persons enrolled in vocational education, almost two-thirds are in secondary vocational education programs.
- Of the 7.6 million enrollments in vocational education, 4.5 million enrollments were in occupationally specific programs.
- One-third of America's 4-year colleges provide vocational training.
- Two-year institutions of higher education account for over two-thirds of postsecondary enrollments in vocational education.
- Over half of the enrollments in postsecondary programs are in programs of less than 500 hours.
- Since 1972, instructional staff increased 50 percent (from 236,000 to 354,000).
- While Federal support for vocational education programs has increased slightly from 1972 to 1979, State and local funding has doubled.
- The completion status for 11th and 12th grade students showed that over 45 percent completed their program.



U.S. Department of Education T. H. Bell Secretary

Office of Educational Research and Improvement Dick W. Hays

Acting Assistant Secretary

National Center for Education Statistics
Marie D. Eldridge
Administrator



National Center for Education Statistics

"The purpose of the Center shall be to collect and disseminate statistics and other data related to education in the United States and in other nations. The Center shall collect, collate, and, from time to time; report full and complete statistics on the conditions of education in the United States; conduct and publish reports on specialized analyses of the meaning and significance of such statistics; ... and review and report on education activities in foreign countries."—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

Division of Statistical Services
Forms Management & Publications Branch
Thomas Hill, Editor

Foreword

This report presents comprehensive statistics describing the condition of vocational education. It contains final data for the 1978-79 school year collected by the National Center for Education Statistics (NCES) through the newly instituted Vocational Education Data System (VEDS), mandated by Congress in the Education Amendments of 1976. It includes, also, data from several other sources both within and outside of NCES. This statistical report supplements NCES congressional testimony on vocational education presented on September 17, 1980. The report describes many aspects of vocational education, examining its providers, offerings, students; facilities, instructional staff and finances. It also presents the student perspective, documenting students' interests in obtaining vocational education, the problems they encounter, and the outcomes they achieve.

To facilitate the use of this report as a reference document; the tables are grouped together at the end of each chapter of text. The charts are integrated into the text; each chart contains a reference to the table from which it was derived. Finally, since two different groups of programs are discussed in this report — those receiving Federal funds under the provisions of the Vocational Education Act, as amended, and all programs, regardless of funding — the designation (VEA) is included in the title of those tables which refer only to Federally assisted programs.

Marie D. Eldridge Administrator National Center for Education Statistics July 1981



Acknowledgments

The project staff of the Vocational Education Data System have been major contributors to this report. Robert Morgan, Project Director, and David B. Orr, Chief, Systems Design and Analysis Branch, were helpful in numerous ways, providing support and coordination with ongoing VEDS project activities. The assembly of final VEDS data for inclusion in this report was the responsibility of Nicholas Osso. Ellease Dill reviewed several portions of this manuscript and gave a comprehensive review of an earlier version of the report. Judy Loren provided extensive programming support for the production of final tables.

In compiling the information presented here, the authors were greatly assisted also by members of a specially constituted analysis task force. Jane Crane compiled data from the data bases on noncollegiate post-secondary schools and students; and shared responsibility for assembling the data on finance and preparing the related text. Nicholas Osso was jointly responsible for the finance section, and also served as the liaison to the permanent staff of the Vocational Education Data System (VEDS), coordinating work on VEDS data with the survey contractor, NCES staff, and the analysis team. Jeffrey Owings compiled data from the National Longitudinal Study and High School and Beyond. John Dusatko coordinated the many support services offered by the Data Systems Branch from Paul Dunn, Samuel Barbett, and others. Others supplying data included Ruth Boaz, Evelyn Kay, Larry Suter, and Valena White Plisko, all of NCES, and Richard Carlson of the Office of Adult and Vocational Education. Reviews of an earlier version of the report were given by Marjorie Chandler, NCES, and Kent Bennion of the Office of Vocational and Adult Education.

Typing of many versions of the manuscript and providing clerical support to the analysis task force was the responsibility of Marilyn Snyder. Tables were typed by Judy Shumate. Typing services were also provided by Denise Wood and Josie Shell. The manuscript was edited by Thomas Hill.

The authors wish to extend their appreciation for the support of these and many other NCES staff members who assisted in numerous ways.

How to Obtain More Information

Information about the Center's statistical program and a catalog of NCES publications may be obtained from the Statistical Information Office, National Center for Education Statistics (Presidential Building), 400 Maryland Avenue, S.W., Washington, D.C. 20202, telephone (301) 436-7900.



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A Context for Examining the Condition of Vocational Education

Vocational education is an integral part of American education. Intended to prepare persons for entry into occupations, its goals are consistent with the more generally stated aims of formal education to prepare persons for meaningful and productive lives. Vocational education both complements and builds upon the basic and applied skills emphasized in the early years of formal schooling. This report examines vocational education within the context of the formal education system and related institutions. It describes the condition of vocational education from the standpoint of the receivers as well as the providers. The ability of the network of vocational education opportunities to meet its demanding goals is assessed. In particular, the successes of that network in meeting the needs of a diverse clientele are studied.

The report utilizes data compiled from many sources. It portrays the offerings of vocational education, examines the characteristics of those providing it, and tests, where possible, the effectiveness of the results. The resulting compilation of information is, as a consequence, less precise than one might wish. The amount of information assembled here is considerable, including some which is highly specific and some which is regretably general in detail. In an attempt to be comprehensive the report also has had to be electic. Hence, the resulting portrait of vocational education is better described as a mosaic than as a photograph.

Compiling an assessment of the condition of vocational education has proven to be a highly effective device for bringing into focus the need for information and for identifying topics or areas where the quality of data, from either recent or from earlier established sources, hinders presentation or understanding. The report thus also considers the quality of data describing vocational education. Specific problems are discussed in the context of on-going data systems and the development over time of reliable data bases for continued analyses.

Federal Support for Vocational Education

Vocational education has a firmly established position in the American educational system. From the outset, school curriculums were formulated to ensure that they provided the basic skills necessary for effective citizenship and economic productivity. At the early levels in particular, practical examples furnished the standard of acceptable performance.

As the educational system itself grew to accommodate society's changing needs for trained manpower, the integral role of vocational education became more readily apparent. At the Federal level, the importance of vocational education was expressed with the passage of the Smith-Hughes Act of 1917. As one of the early programs of aid to States for the purpose of education, the Act made possible the provision of ocational education through support of facilities and programs. The Act is regarded now as a landmark step in the support of education. It both affirmed the value of vocational education and established a program of Federal support to meet particular educational objectives.

Recent Federal efforts to support vocational education date from 1963. At that time, the passage of the Vocational Education Act initiated efforts to expand and improve vocational education. The Act contained many provisions: It created a permanent authority for Federal assistance to the States to fund types of job training for youth and adults through the schools; it required that nationally funded research explore experimental and developmental programs; and it provided funds for the construction of area vocational schools and for work study programs.



Amendments to the Vocational Education Act in 1968 gave States greater flexibility in offering broad training programs by removing matching provisions. States were encouraged to improve the evaluation of job training and to increase coordination with Federal and State job training programs. Funding was provided for exemplary projects, cooperative education, curriculum development, and special programs for the disadvantaged and handicapped. Support for construction of area vocational schools and for work-study programs was continued. State Advisory Councils on Vocational Education were created.

The Education Amendments of 1974 authorized States to provide programs for youths and adults needing bilingual vocational training. The Education Amendments of 1976, while continuing support for many of these programs, also articulated a specific need for improved planning and for the capability of regularly assessing both the successes of vocational education and the relationship between offerings and manpower needs. These amendments established a national vocational education data reporting and accounting system. This report presents the first data to be collected through the newly mandated system.

Scope of Report

This report describes vocational education from both an institutional and a student perspective. The institutional characteristics are presented from the standpoint of providers of vocational education, including many outside the formal educational system that nonetheless meet the primary vocational education requirement. The information presented on providers represents a comprehensive attempt to identify and describe all institutions that could be classified as offering vocational education regardless of whether those institutions receive Federal support under the provisions of the Vocational Education Act, as amended. Programs providing work-related training that are offered by employers or associations are excluded.

The institutional perspective provides data on enrollments and student characteristics, facilities and staff of provider institutions; and on financing of programs under the jurisdiction of State Boards of Vocational Education. Data sources utilized to present the institutional perspective include several of the ing surveys of the National Center for Education Statistics, including the newly instituted Vocational into Data System (VEDS) as well as the Higher Education General Information Survey and the Survey of Noncollegiate Postsecondary Schools with Occupational Programs; special surveys by the Office for Civil Rights and the National Institute of Education; program information compiled by the Bureau of Occupational and Adult Education, of the former U.S. Office of Education; and special studies conducted by the Office of Planning and Evaluation, also of the former U.S. Office of Education.

The student perspective is addressed with information assembled to illuminate the goals of vocational education students, the constraints they confront, and their satisfaction with their training. Data sources include many of the surveys cited earlier, plus the National Longitudinal Study of the High School Class of 1972 and High School and Beyond, both longitudinal surveys of NCES. Considerable attitudinal and option data are presented.

Outcomes of vocational education are addressed from both the institutional and student perspectives. Longitudinal data tracking students through education and work experience are supplemented by labor market profiles and data on job satisfaction. Data sources in addition to those already mentioned include the Bureau of Labor Statistics.

Data are presented for the calendar year 1978 or the school year 1978-79, whenever possible. While this designation was possible for ongoing surveys, several of the special studies cited here were for earlier or later periods. Their inclusion was based on the judgment that they offered information either general enough to be of lasting value or important enough to merit inclusion despite a departure from the selected point in time.



Institutional Providers of Vocational Education

Vocational education is offered in many settings. While historically the single largest provider has been the traditional educational system providing instruction at the secondary level, other educational institutions offering general or academic instruction are major providers also. Postsecondary institutions are particularly important in considering how successfully vocational education provides specific skills for job entry. In addition, a number of institutions outside of the traditional, formal educational system exist for the express intent of providing job skills, in many cases in highly specialized fields or occupational areas. Further, the provisions of the Federal Vocational Education Act, as amended, supported the construction of special facilities providing vocational education. Not only has access to a variety of training opportunities been enhanced by this support, the diversity of types of institutions providing vocational training also has been increased.

This report examines only those vocational education programs offered within the institutional settings cited here. There are, in addition, specific instructional programs offered to employees by employers and sponsored by labor unions and by various fraternal or social organizations. While many of these programs are of considerable magnitude, both in the number of persons served and in the variety and quality of instruction offered, these various training efforts are outside the scope of this report. This report offers the most comprehensive picture possible of vocational education as it is offered by the institutions within or analogous to the traditional educational system.

To portray vocational education in its many settings has required the definition and description of a mosaic of institutions. The components of the picture of providers include secondary and postsecondary institutions. Several data sources had to be utilized. As a result, the identification and description of the institutions has required in some instances the use of general terms that mask many significant, even fundamental, difference in institutional intent or character. Nonetheless, to provide the mandatory framework for the statistical description of vocational education, the following institutional categories have been used:

Secondary Institutions

Comprehensive High School — A comprehensive high school is a general high school offering programs in both vocational and general academic subjects, but in which the majority of the students are not enrolled in programs of vocational education.

Vocational High School — A vocational high school is a specialized secondary school that offers full-time program of study in both academic and vocational subjects and in which all or a majority of the students are enrolled in vocational education programs.

Area Vocational Center — An area vocational center is a shared-time facility that provides instruction only in vocational education to students from throughout a school system or region. Students attending an area vocational center receive the academic portion of their education program in regular high schools or other institutions.

Postsecondary Institutions

Four-Year Institutions of Higher Education — A 4-year institution of higher education is an



institution legally authorized to offer and offering at least a 4-year program of college-level studies wholly or principally creditable toward a baccalaureate degree, either accredited or preaccredited by an agency recognized for such purpose by the U.S. Department of Education, and meeting the related requirements necessary for inclusion in the Education Directory: Colleges and Universities.

Two-Year Institutions of Higher Education — A 2-year institution of higher education is an institution legally authorized to offer and offering at least a 2-year program of college-level studies which terminates in an associate degree or is principally creditable toward a baccalaureate degree and meets accrediting and related requirements necessary for inclusion in the Education Directory: Colleges and Universities. This group includes institutions frequently identified as community colleges, offering both general and vocational-technical education, and some technical institutes, offering instruction primarily in vocational and technical education provided they meet the general criteria specified above.

Noncollegiate Postsecondary Schools — A noncollegiate postsecondary school is a non-degree granting institution (or an institution offering a degree that is not recognized as a collegiate degree by the appropriate regional accrediting commission) offering instruction in vocational and technical education only, and whose educational programs are terminal in nature. Such institutions generally have no provision for the development of transfer programs to either 2-year or to 4-year institutions of higher education. This group includes area vocational schools and schools offering specialized instruction for preparation for a single or group of occupations. Types of schools included in this specialized group may be of the following:

Vocational/technical — A school offering a wide variety of occupational programs or clusters of programs. Schools in this category may be considered multiprogram schools.

Technical institute — An institution (usually 2-year) offering instruction in one or more of the technologies at a level above the skilled trades and below the professional level.

Business/commercial school — A school offering programs in business occupations such as accounting, data processing, word processing, and secretarial. Special-purpose schools that offer the following programs are included: court reporting, finance, insurance, real estate, and sales.

Cosmetology/barber school — A school offering programs in hairstyling for men and women and in the care and beautification of hair, complexion, and hands. Schools in this category are primarily privately controlled; none of the specialized public schools reporting in 1978 were of this type.

Flight school — A school offering programs for training as aircraft mechanic, commercial pilot, or in other technical fields related to aviation. These schools are also virtually all private.

Trade school — A school offering training in one trade or craft or a single cluster of trades or crafts, such as auto mechanics, baking, bartending, carpentry, carpetlaying, commercial diving, cooking, dog grooming, drafting, fire protection, horseshoeing, locksmithing, meat processing, police training, truck driving, and welding.

Arts/design school — A school offering training in the performing arts, such as acting, dance, music, and singing; creative design, such as commercial art, fashion design, floristry,



interior design, photography; and radio/television browdcasting. All of the schools in this category in 1978 were private.

Hospital school - A hospital offering programs in paraprofessional health or medical fields, such as nursing or radiologic technology.

Allied health school — A school (other than hospital school) offering programs in paraprofessional health or medical fields, such as dental assisting, medical assisting, practical nursing, and mortuary science.

Schools or institutions not classified in any of the above groups include schools of modeling, brewing, maritime occupations, and horsemanship.

Correspondence Schools - A correspondence school is a postsecondary institution which offers vocational programs exclusively through correspondence courses.

State Correctional Facilities — A State correctional facility is a State operated adult prison facility which offers vocational training to the incarcerated. Juvenile facilities and other than State operated facilities are excluded from this study.

These secondary and postsecondary institutions comprise the almost 28,000 identified providers of vocational education in the United States and its outlying areas. Because the numbers of various types of institutions were compiled from several different (and not always mutually exclusive) data bases, other sources enumerating schools by type show counts that depart somewhat from the numbers presented here. These numbers do reflect a concerted attempt to both establish a nomenclature that minimizes, if not eliminates, classification problems and to reconcile data from a variety of different sources, correcting for possible multiple counting of institutions.

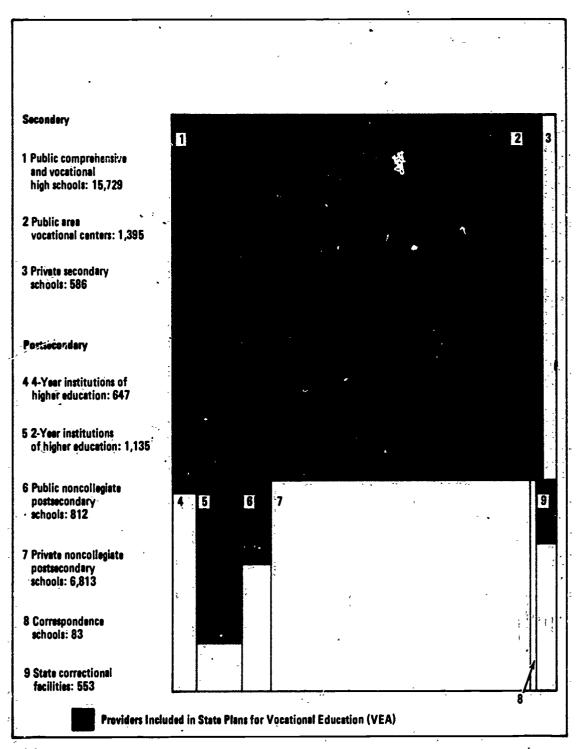
Of the 27,753 provider institutions offering vocational programs in 1978-79 approximately two-thirds were at the secondary level (chart 2.1). The largest single type of provider, public comprehensive and syccational high schools, makes up more than half of the total, with 15,729 schools (table 2.1). There are fewer than one-tenth as many public area vocational centers. These 1,395 institutions provide instruction in vocational education on a shared-time basis to students from throughout a school system or region, as was noted earlier. Among private secondary schools, 586 are identified as offering vocational programs.

The second largest type of provider institution is private noncollegiate postsecondary schools (often referred to as proprietary schools although many are non-profit institutions). The 6,813 schools in this category make it less than half the size of the largest group. More than 60 percent of these schools are very small, with enrollments of 100 students or less (table 2.2). The reported numbers of these private noncollegiate schools dropped by 12.9 percent between 1974 and 1978 (table 2.3). The public schools in the noncollegiate category, of which there were 812 recorded in 1978, tended to have somewhat larger enrollments. Even so, more than half, 53.0 percent, has 250 students or less in 1978. While these schools also have declined in number since 1974, the decrease has not been quite as rapid as for the private schools. There were 9.0 percent fewer public noncollegiaté schools in 1978 than in 1974.

A sizeable share of the nation's colleges and universities also offer vocational training at the postsecondary level. Of the 1,211 2-year institutions, almost all (1,135) offer vocational programs. Among 4-year schools, one third, or 647, offer vocational programs. The 553 State correctional facilities also provide many types of programs.



Chart 2.1 Providers of Vocational Education



SOURCE: Table 2.1



The schools making up this universe of 27,753 vocational education providers include institutions offering programs administered under the Vocational Education Act (VEA) as well as others outside the jurisdiction and scope of the Act. All of the institutions in this universe are technically eligible to receive Federal funds. Nevertheless, State policy, institutional choice or other reasons caused approximately one institution in three to receive no financial assistance under the VEA. Thus a share, but not all, of the enrollments in these institutions are included in the State Plans for Vocational Education required by the VEA and reported as part of the Vocational Education Data System (VEDS). Coverage at the secondary level is most complete. All of the public comprehensive and vocational high schools and the public area vocational centers counted in this report are included in VEDS. (There are some comprehensive high schools which offer vocational education programs not administered under the Vocational Education Act, but data are not available on the number of such schools.) Private secondary schools are not included in VEDS.

At the postsecondary level, the receipt of Federal funds is variable depending on the type of institution in each category. It is estimated that over three-fourths of the 2-year institutions of higher education offer VEA-administered programs. Smaller shares of the public noncollegiate schools and correctional facilities have programs covered by State plans of vocational education. A very small share of the 4-year institutions of higher education are included in State plans, only about 5 percent, while virtually none of the private noncollegiate postsecondary schools or correspondence schools are included. Information regarding these schools, their offerings, enrollments and other characteristics must be obtained from sources other than VEDS.



Table 2.1

Number of secondary and postsecondary institutions offering vocational education programs, by type of institution and by State or outlying area: 1978-79

State or outlying area	Total	Public comprehensive or vocational high schools	Public area voc. centers (secondary)	Private secondary schools	Public noncollegiate postsecondery institutions	Private noncollegiate postsecondary institutions	Corres- pondence schools	2-Year Institutions of higher education	4-Year Institutions of higher education	State correctional facilities
Totals	27,753	15,729	1,395	586	812	6,813	83	1,135	647	553
Alabama	636	369	113	9	24	(\$	_			
Alaska	200	150	2	2		65	0	23	12	21
Arizona	350	150	3	8	3	22	1	10	1	9
Arkansas	470	333	9	5	6-	154	4	14	3	8
California	2,363	1,117	63	56	28	67	0	10	12	6
	-,	*,***	03	20	23	939	20	111	22	12
Colorado	422	252	17		_					
Connecticut	350	157		7	9	102	4	16	11	4
Delaware	71	28	16	6	17	109	2	18	11	À
District of Columbia	66	26 16	4	2	0	22	1	6	3	5.
or cordmora	00	10	1	4	2	 27	2	0	7	7.
Florida	697	316	20						•	•
Georgia	616		28	18	30	231	6	30	12	26
Hawaii	80	333	26	10	39	148	2	23	16	19
Idaho		38	Ō	2	1	21	Ō	6	3	9
Illinois	176	124	2	0	11	30	Ô	3	4	2
11,1111019	1,286	776	32	24	18	349	6	55	16	
Indiana							•	33	10	10
_	613	358	31	19	10	144	2	17	26	,
Iowa	708	565	0	10	2	94	ō	23	7	6
Kansas	391	246	14	5	14	65	ŏ	24		7
Kentucky	489	252	72	9	24	96	ŏ	10	15	8
Louisiana	620	389	18-	11	36	135	0	10 5	16	10
					••	133	Ü	3	17	9
Maine	158	62	22	11	7	37	•	,		
Maryland	455	252	19	7	3	126	v	6	10	3
Massachusetts	552	247	22	24	30	164	ī	21	6	20
Michigan	902	436	44	23	13		3	41	13	* 8
Minnesota	685	422	61	7	41	304	2	38	28	14
			√ •	•	41	110	0	23	9	12

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Table 2.1

Number of secondary and postsecondary institutions offering vocational education programs, by type of institution and State or outlying area: 1978-79 -continued

	Total	Füblic comprehensive or vocational high schools	Public area voc. centers (secondary)	Private secondary schools	Public noncollegiate postsecondary institutions	Private noncollegiate postsecondary institutiona	Corres- pondence- schools	2-Year Institutions of higher education	4-Year Institutions of higher education	State correctional facilitiea
Mississippi	381	228	-61	8	3	52	1	<u></u>	.5	
Missouri	697	359	55	12	36	178	ī	17	30	້
Montana	. 174	120	0	1	5	37	ō	3	4	á
Nebraska	361	255	0	12	5	61	ī	10	13	Ä
Nevada	95	50	1	1	Ō	34	ō	3	2	4
New Hampshire	155	80	20	3	1	27	0	10	12	2
New Jersey	630	311	35	17	22	203	ī	20	14	7
New Mexico	175	95	3	, 3	8	46	ō	7	7	6
New York	1,026	420	72	′52	22	317	6	7 9	36	22
North Carolina	681	386	8	8	5	109	Ŏ	74	18	73
North Dakota	212	148	9	5	0	34	0	7	6	3
Ohio	1,306	735	76	19	50	336	5	46	30	9
Oklahoma	693	475	35	5	30	110	ő	19	9	10
Oregon	347	199	4	3	ī	117	ŏ	13	6	10 /
Pennsylvania	1,277	663	67	, 62	35	351	3	46	41	9
Rhode Island	112	51 ⁻	0	6	1	38	0	2	8	6
South Carolina	416	242	33	ă	25	56	ĭ	26	11	18
South Dakota	225	160	6	ż	8	27	ô	20	12	3
Tennessee	584	287	62	7	44	125	ĭ	23	24	11
Texas-	2,452	1,769	117	17	55	397	i	61	20	15
Utah	165	85	2	1	9	50	0	7	5	6
Vermont	109	49	15	9	ž	16	ŏ	3	7	8
Virginia	541	252	39	ģ	7	152	3	25	8	46
Washington	539	302	4	13	5	173	2	27	4	9
West Virginia	310	150	50	3	25	50	Õ	8	14	10
Wisconsin	544	380	0	16	15	98	1	19	7	8
Wyoming	87	57	ĭ	4	1	11	ô	7	ó	6



Table 2.1

Number of secondary and postsecondary institutions offering vocational education programs, by type of institution and State or outlying area: 1978-79
--- continued

Outlying area	Total		Public area voc. centers (secondary)	Private secondary schools	Public noncollegiate postsecondary institutiona	Private noncollegiate postsecondary institutions		2-Year Institutions of higher education	4-Year Institutions of higher education	State .correctional facilities
American Samoa	6	4	1	Na 4		way.				
Guam	2	ì	•	NA	NA	NA	NA	1	0	NA
Puerto Rico	89	14	•	NA	NA	NA	NĄ	0	í	NA.
Trust Territory of the		17	U	NĄ	1	47	Ó	15	12	
Pacific Islands	4	·1	0	NA ·	NA	NA *	NA	1	0	na Na
Virgin Islands	4	3	0	. NA	***					
Commonwealth of	NA	NA:	NA.	NA NA	NA	NA	NA	0	1	NA
Northern Marianas		o 45 5 ,	w	MA	NA	NA	NA	NA	NA	NA NA

NA Not Available.

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SOURCES: United States Department of Education, National Center for Education Statistics, Directory of Postsecondary Schools with Occupational Programs, 1978, Education Directory: Colleges and Universities 1978-79; Survey of nonpublic elementary and secondary schools, 1978; and discussions with State personnel; United States Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, 1979; Carlson, Richard, National Institute of Education, Vocational Education August 1980.



Table 2.2 . Number and percent of noncollegiate postsecondary schools with occupational programs, by size: 1974, 1976, and 1978

		To	tal	Y	Public		Private	lvate	
Size of school	19.74	1976	1978	1974	1976	1978	1974	1976	197
	 , · 		Numb	er of scho	ools			- \ - \ - \	
Total	8,716	8,499	7,625	892	99Ó	812	7,824	7,509	6,81
Less than 25 students	2,223	1,895	1,601	155	173	143	2,068	1,722	1,45
25-49 students	1,804	1,878	1,342	86	158	74:	1,718	1,720	1,26
50-99 students	1,612	1,589	1,464	103	63	91	1,509	1,526	1,37
100-249 students	1,621	1,853	1,708	151	19é	123	1,470	1,657	1,58
250-499 students	706	739 ⁻	702	144.	158	120	562	581	58
500-999 students	349	365	404	136	143	126	213	222	2
,000-2,499 students	253	136	175	115	65	97	138	71	•
,500 students and over	233	44	53	117	34	35`	130	10	
Students not reported	148	0	176	2	0.	3	146	0	13
			Percent	age distri	ibution				
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
Less than 25 students	25.5	22.3	21.0	17.4	17.5	17.6	26.4	22 . 9	21.
25-49 students	20.7	22,.1	17.6	9.6	16.0	9.1	22.0	22.9	18,
0-99 students	18.5	18.7	19.3	11.6	6.4	11.2	19.3	20.3	20
.00-249 students	18.6	21.8	22.4	16.9	19.8	15.1	18.8	22.1	23
250-499 students	8.1	8.7	. 9.2	6.1	16.0	14.8	7.2	7.7	8
00-999 students	4.01	4.3	5.3	15.2	14.4	15.5	2.7	3.0	4
L,000-2,499 students	2.9	1.6	2.3	12.9	6.6	11.9	1.8	•9	1
2,500 students and over	-	5	•7		3.4	4.3		.1	_
Students not reported	1.7	0	2.3	• 2	0,	• 4	1.9	0	2



SOURCE: United States Department of Education, National Center for Education Statistics, Enrollments and Programs in Noncollegiate Postsecondary Schools, 1978, 1979.

Table 2.3 Number and percent of noncollegiate postsecondary schools, by control and type: 1974, 1976, and 1978

		Numbe: of	5		_			
Control and		schools	1		Percentage distribution			
type of school	1974	1976	1978	1974	1976	1978		
			ALL	SCHOOLS				
Total	8,716	8,499	7,625	100.0	100.0	100.0		
Vocational/technical 1/	1,167	592	606	12 /		_		
Technical institute 17	23.5	211	99	13.4 2.5	7.0	7.9		
Business/office	1,242	1,221	1,249	14.2	2.5 14.4	1.3		
Cosmetology/barber	2,405	2,347	2,163	27,6	27.6	16.4		
Flight Trade	1,483	1,406	1,064	17.0	16.5	28.4 14.0		
	708	762	716	8.1	9.0	9.4		
Arts/design 1/	0	256	246	ō	3.0	3.2		
Hospital	1,247	1,112	917	14.3	13.1	12.0		
Allied health 1/ Other	0	341	356	o	4.0	4.7		
other	249	251	210	2.9	2.9	2.7		
			PUE	LIC				
Total	892	990	812	100.0	100.0	100.0		
Vocational/technical 1/	579	453	504	64.9	45.8	62.1		
Technical institute 17	52	39	7	5.8	3.9	.9		
Business office	1	1	4	.1	,1	.5		
Cosmetology/barber	4	22	0	.4	2.2	.0		
Flight Trade	6	45	5	.1	4.5	.6		
	30	17	14	3.4	1.7	1.7		
Arts/design <u>1</u> / Nospital	0	1	0	0	.1	0		
	170	215	147	19.1	21.7	18.1		
Allied health 1/	0	127	114	Ö	12.8	14.0		
, cher	50	70	17	6.2	7.2	2.1		
			PRIVAT	re .				
Total	7,824	7,509	6,813	100.0	100.0	100.0		
Proprietary	6,512	6,435	5,814	100.0	100.0	100.0		
ocational/technical 1/ echnical institute 1/	515	562	76	7.9	8.7	1.3		
usiness/office	150	166	83	2.3	2.6	1.4		
osmetology/barber	1,208	1,203	1,201	18.5	18.7	20.7		
light	2,397	2,307	2,162	36.8	35.9	37.2		
rade	1,472 571	1,261	1,055	22.6	21.1	18.1		
rts/design <u>l</u> /	3/1	599	616	8.8	9.3	10.6		
ospital	24	0	220	0	0	3.9		
llied health 1/	0	14	18	.4	.1	.3		
ther	175	0 223	195	0	0	3.4		
Nonprofit	1,312	1,074	188	2.7	3.5	3.2		
cational/technical 1/	73	41	999	100.0	100.0	100.0		
chnical/institutel 1/	13	5	26	5.6	3.8	2.6		
siness/office	33	17	9 44	1.0	.5	1.0		
smetology/barber	4	17	44 1	2.5	1.6	4.4		
light	5.	0	4	.3	1.8	,.1		
ade	107	102.	86	.4 8.2	0	.4		
ts/design <u>1</u> /	0	0	26	8.2	9.5	8.6		
spital	1,053	883	752	80 2	0	2.6		
lied health 1/	0	0	46	80.2	82.2	75.3		
her	24	7	5	0	0	4.6		

^{1/} Change in definition of type of school.



NOTE: Details may not add to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics, Enrollments and Program in Noncollegiate Postsecondary Schools, 1978, 1979.

Enrollment in Vocational Education

Institutions offering vocational programs enrolled close to 20 million vocational students in 1978. The diversity of programs and the students they serve complements the variety of institutions examined earlier. Both the level of the institutional program and the intent of the students vary, in addition to the more obvious range of program choices. The 19, 563, 175 vocational enrollments reported by secondary and postsecondary schools (table 3.1) are divided between the two levels in shares of approximately two-thirds secondary and enethird postsecondary (65.1 percent and 34.9 percent, respectively). The division of enrollment by level is close to the division of institutions examined earlier, which was 63.9 percent secondary and 36.2 percent postsecondary.

The distribution of enrollments among the provider institutions differs from the distribution of numbers of institutions. Size differences among the types of institutions are responsible for these variations. At the secondary level, the public secondary schools, area centers, and secondary level adult programs account for virtually all secondary vocational enrollments; less than a single percentage point of these enrollments are in private schools (chart 3.1). Distribution of enrollments at the postsecondary level departs markedly from the distribution of institutions. The 2-year institutions of higher education account for by far the largest single portion of the postsecondary enrollments, enrolling 64.9 percent of all postsecondary students while constituting only 11.3 percent of all postsecondary institutions. The remaining 35.1 percent of postsecondary enrollments are located in the remaining five categories of institutions, with private noncollegiate schools enrolling the second largest share, 15.6 percent of postsecondary students, or 997,196.

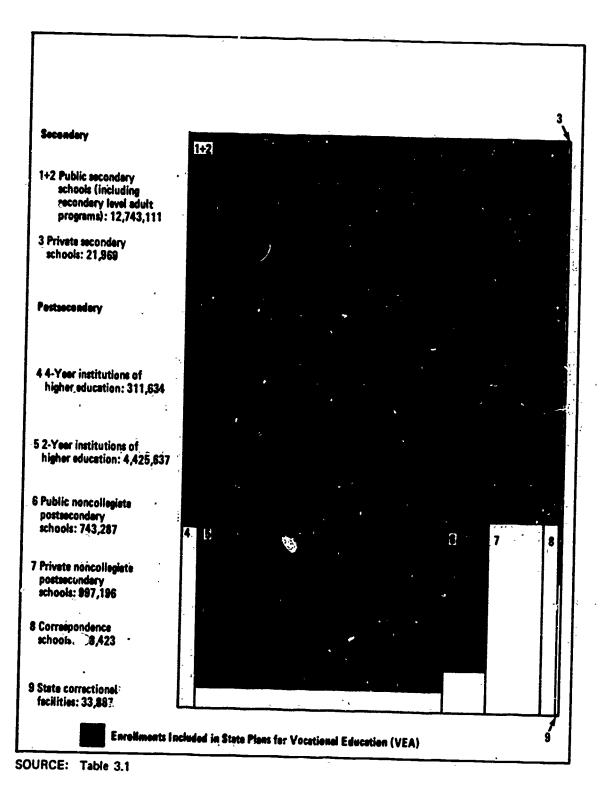
Not all of the enrollments are in programs which are administered under the Vocational Education Act (VEA), as amended. Vocational programs in most privately controlled institutions are excluded from coverage in the State Plans for Vocational Education, as are many other programs for reasons ranging from lack of State approval to State policy or jurisdictional anomalies. Approximately 88.3 percent of the almost 19.6 million vocational students were enrolled in programs administered under the VEA in 1978-79. (It should be noted, however, that information was not available on secondary enrollments excluded from State Plan coverage.)

Enrollments in VEA programs are reported by program level (e.g., postsecondary) rather than by type of institution. Therefore, it is not possible to determine the precise proportion of the enrollments from each type of provider which are included in State Plans for Vocational Education administered under the VEA. It appears, however, that virtually all public secondary programs are included in State Plans, while almost all private programs at the secondary level are excluded. At the postsecondary level, it is estimated that almost 80 percent of the vocational students in public noncollegiate postsecondary schools and almost 90 percent of similar students at 2-year institutions of high education are enrolled in programs administered under the VEA. An estimated 30 percent of the vocational enrollments in State correctional facilities and 5 percent of the enrollments in 2-year vocational programs at 4-year institutions of higher education are included in State Plans. Virtually all private noncollegiate and correspondence school enrollments are excluded.

¹ The enrollment numbers were derived from multiple sources, and, in some cases, complex estimation procedures were required to adjust for basic incompatibilities among the various data bases. The individual numbers are, therefore, subject to varying degrees of error.



Chart 3.1 Enrollments in Vocational Education





Vocational education programs are traditionally grouped into nine program areas. The areas used to categorize vocational program offerings are:

Agriculture,
Distribution,
Health,
Consumer and Homemaking,
Occupational Home Economics,
Industrial Arts,
Office Occupations,
Technical, and
Trade and Industrial

These program areas provide a particularly useful basis for reviewing characteristics of students, since they permit examination of policy issues related to educational access and labor market distribution. Because of the intentionally close relationship between enrollments and job entry in these fields, vocational education is a focal point for facilitating entry of minorities and females into the labor market, particularly into those areas where their participation has historically been limited.

The nine program areas differ greatly in size. The largest in terms of enrollment is Office Occupations, with about one of every five vocational enrollments. The Trade and Industrial area comprises an almost identical share of the total, with Consumer and Homemaking enrollments only somewhat smaller than either of these two areas. The remaining areas each enroll fewer than half as many as the largest area. The smallest area, Occupational Home Economics, is only about one-sixth the size of the largest area.

Enrollment counts in each of the various program areas may be examined for each level of instruction. Rather than presenting enrollments by type of provider institution, VEDS categorizes enrollments by the following instructional levels: Below grade 11, grades 11-12, postsecondary, adult (long-term) and adult (short-term). The designations are intended to differentiate among both the level and the nature of instructional opportunities.

Vocational enrollments reported to VEDS for 1978-79 show 17,033,620 students enrolled at all levels (table 3.2). It was noted earlier that approximately 88 percent of the estimated total of vocations education enrollments are counted by VEDS. While the order of program areas by size varies in some cases between the universe picture and VEDS, the three program areas with the largest total enrollment, all close in size, remain. Consumer and Homemaking, Office Occupations, and Trade and Industrial. The two smallest areas of reported enrollments are Technical and Occupational Home Economics.

The order of program areas by enrollment size is markedly different at each level of instruction. Thus the enrollment picture should be reviewed at each level to describe adequately the character of vocational education. At grades 11 and 12, Consumer and Homemaking and Office Occupations are the largest areas, accounting for 50 percent of the total enrollments. Trade and Industrial is the third largest program area at these grade levels, with 18 percent of the enrollments. The fewest enrollments are in Technical programs, which account for less than one percent of the total.

At the postsecondary level the comparative enrollment patterns are totally different. Office Occupations remains the largest area by a substantial margin, but Consumer and Homemaking is now one of the smallest. The Trade and Industrial program area continues to account for a large share of the enrollments with slightly less than 20 percent of the total. Substantial increases in percentage of enrollments are seen in Distribution, Health, Office Occupations, and Technical program areas. Decreases in percentage of enrollments are evident in Agriculture, Consumer and Homemaking, and Industrial Arts programs.



Adult enrollments are reported using two categories: short-term adults—adults enrolled in programs of under 500 contract hours duration—and long-term adults. Comparisons of enrollment profiles by program area underscore fundamental differences in these two enrollment categories. Trade and Industrial has the largest enrollment for both categories. But it makes up only 30 percent of short-term adult enrollments, whereas it represents 44.3 percent of long-term adult enrollments. Consumer and Homemaking reemerges as a substantial area for short-term adult instruction, with 21.5 percent of total short-term enrollments.

The great differences in the total size of the nine program areas conceal important differences in the distribution of these areas among the various levels of instruction. For example, Office Occupations is such a large area that it comprises a substantial share of the vocational instruction at each level. Yet enrollments for many program areas are concentrated at a particular level. Thus it is useful to look at each program area and its enrollment distribution across levels in addition to the earlier examination of distributions by level. Three program areas emerge as being predominantly secondary (i.e., grade 12 or below): Agriculture, Consumer and Homemaking, and Industrial Arts. For each of these areas, more than 70 percent of all enrollments are at the secondary level. The secondary shares for the three are 71.7, 75.8 and 98.9 percent, respectively. Two other areas have majorities at the secondary level, though they are not as overwhelmingly secondary: Occupational Home Economics, with 61.8 percent of enrollments and Office Occupations, with 59.3 percent of enrollments.

In contrast, instruction in some areas is usually offered after secondary school. Over 94 percent of Technical enrollments are at these levels. Nearly 85 percent of Health enrollments are found in the combined three post-high-school categories — postsecondary, short-term adult, and long-term adult. A majority of Trade and Industrial enrollments also occur in this group of levels.

These enrollment profiles demonstrate that vocational education is heterogeneous across levels, as it was seen earlier to be heterogeneous across providers. The enrollment figures provide distinctive patterns of vocational students at each level. In addition, most program areas are characterized by enrollments concentrated at either the secondary or postsecondary levels. In few cases does a program area consititute a sizeable share of enrollments at all levels:

The previous observations made concerning enrollment distributions across areas and across levels referred to enrollments in VEA administered programs. The generalizations also applied to all vocational enrollments, including those in programs not administered under the VEA. Because more detailed information is available concerning VEA programs, however, the remainder of this chapter will examine only enrollments in those programs.

The program aren differences noted earlier may reflect differences in prerequisite requirements as well as in student-intent-in-choosing vocational education instruction. The concept of occupationally specific enrollments permits these differences to be quantified. Occupationally specific programs are those programs offered at or above grade 11 which purport to impart entry level job skills for a specific gainful occupation. Excluded are all programs in Industrial Arts and Consumer and Homemaking areas, as well as prevocational, counseling and guidance, and cluster programs. By limiting consideration to occupationally specific enrollments, one can focus on those vocational students who would be expected to have the most immediate and planned impact on the gainful labor market.

Occupationally specific enrollments, which at all levels totaled 7,625,937 in 1978, accounted for 44.7 percent of all VEA enrollments (table 3.3). As might be expected given the profiles of enrollments across program areas at different levels, the shares of enrollments at each level that are occupationally specific also vary. Those differences are a consequence of the specificity or generality of an area, the range of the offerings that constitute the area, and its prerequisite requirements. Smaller proportions of secondary enrollments meet the conditions of being in occupationally specific programs than do postsecondary enrollments. None of the



instruction below grade 11 is included, and somewhat more than half, 56.4 percent, of the enrollment in grades 11 and 12 is identified as occupationally specific. In sharp contrast, 92.0 percent of postsecondary enrollments are in occupationally specific programs. The difference between long-term and short-term adult enrollment classifications is again notable, as a substantial majority (87.5 percent) of long-term adult enrollments are occupationally specific compared with the slightly more than half (51.1 percent) of short-term adults which are so classified.

The occupationally specific enrollments are also found in varying proportions by program areas (chart 3.2). Enrollments in Consumer and Homemaking and Industrial Arts areas are excluded by definition. In the remaining areas, occupationally specific enrollments account for a range of enrollments, from a low of 51.2 percent for Agriculture to a high of 88.7 percent for Technical. Occupational Home Economics also has a low share of occupationally specific enrollments, only 56.9 percent of program area enrollments.

Higher proportions of occupationally specific enrollments are found in the areas of Technical, Distribution, Trade and Industrial, and Health. The detailed listing of enrollments by level for occupationally specific programs (table 3.4) both underscores the earlier discussion of concentration of program areas at a particular level and also provides an improved intuitive basis for examining the specific occupations being stressed in vocational education at the end of the 1970's. The three largest specific programs, with a combined enrollment of 1.25 million students, are Stenographic, Secretarial, and related; Filing, Office Machines and General Office; and Accounting and Computer Occupations. The next three largest programs, which are considerably smaller, are Typing and Related Occupations, Auto Mechanics, and Agricultural Production, with enrollments totaling 824,000. Enrollments in these programs which occur in cooperative education programs, involving training and work experience for pay, are identified in table 3.5. Cooperative education enrollments by State are listed in table 3.6.

Enrollments in some specific programs in the Consumer and Homemaking area, an entire program area not included in the occupationally specific category, in several instances exceed those of even the largest occupationally specific programs. Comprehensive Homemaking enrolled 1,424,290, almost as many as the sum of the largest three programs mentioned earlier (table 3.7). Another sizeable program in the area is Foods and Nutrition (505,783).

If profiles of all enrollments and occupationally specific enrollments are compared, the greater contribution of postsecondary and long-term adult levels to occupationally specific enrollments becomes apparent (chart 3.3). The more than one-quarter of all enrollments that are below 11th grade are eliminated, of course. As a result, while more than half of total enrollments are at the secondary level, more than half of all occupationally specific enrollments are at the postsecondary level.

The distribution of vocational enrollments among the occupationally related program areas (i.e., the nine program areas described earlier minus Consumer and Homemaking and Industrial Arts) has changed somewhat over time. While the large areas of Office Occupations and Trade and Industrial each continue to account for almost one-third of all enrollments in this group, the sizes of the other program areas are displaying change (table 3.8). Agriculture has decreased by more than two percentage points since 1973; Health has shown a similar increase. Occupational Home Economics has increased slightly, with Distribution showing a small decrease.

In comparing reported total enrollment numbers for 1977-78 to those for 1978-79, both real change and changes resulting from reporting differences are combined (chart 3.4 and table 3.9). Major increases occurred in Occupational Home Economics (25.7 percent) and Industrial Arts (12.7 percent). The large growth in Occupational Home Economics is attributable to increases in enrollments in programs on Child Development and Guidance and to increased enrollments below grade 11. The increase in Industrial Arts, however, is due in large part to a reporting change; several States appear to be including Industrial Arts enrollments where they had previously been unreported.



Chart 3.2 Vocational Education Enrollments (VEA) by Program Area

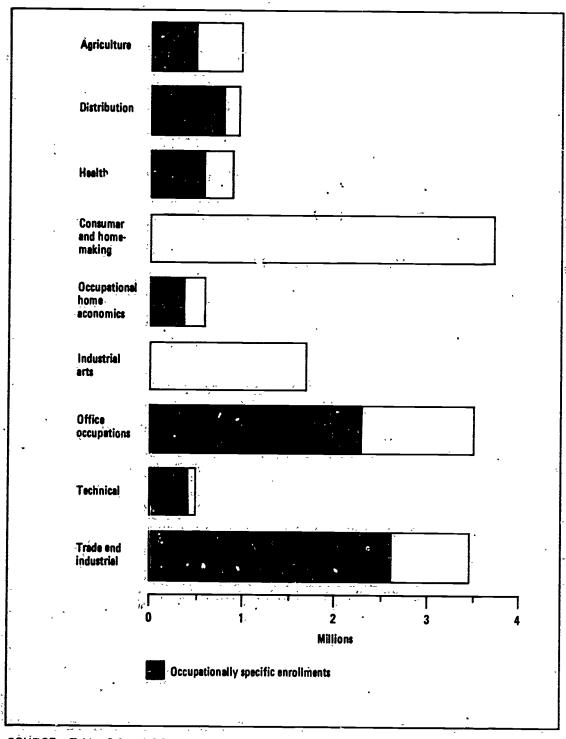
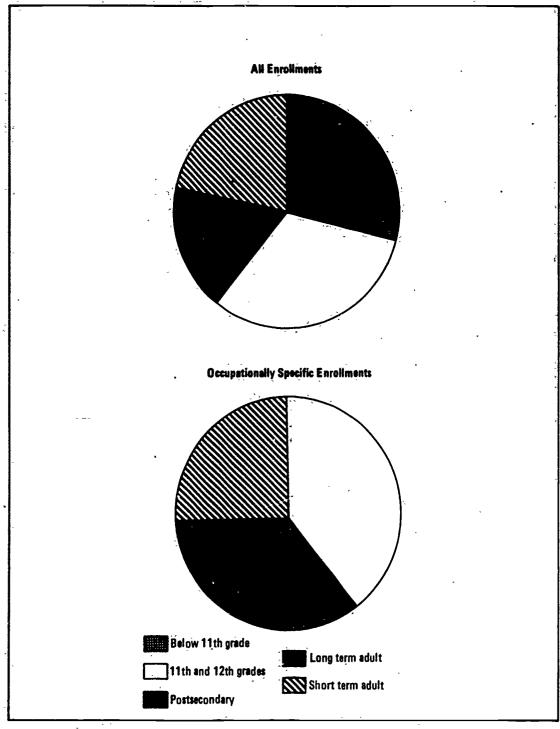




Chart-3.3
Vocational Education Enrollments (VEA), by Level

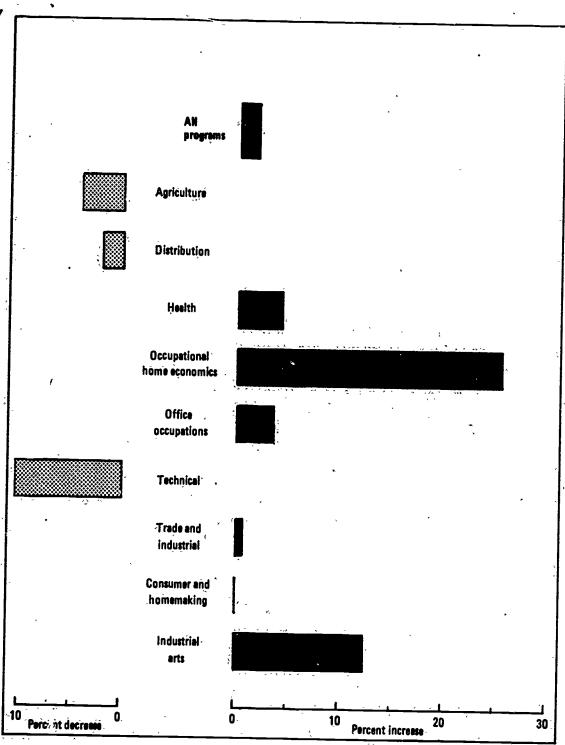


SOURCE: Tables 3.2 and 3.3



19.

Chart 3.4
Percent change in Reported Encollments (VEA) by Program Area: 1977-78-to/1978-79



SOURCE: Table 3.9



In several instances, emphases on particular programs within the various program areas also have shifted over time. In the Consumer and Homemaking area, enrollment changes reflect the impact of general social trends observable in other contexts. Enrollments in the Child Development and Guidance program rose 47.8 percent between fiscal years 1976 and 1979 from the 1976 figure of 193,000 (chart 3.5 and table 3.10). Other large increases occurred in programs emphasized by P.L. 94-482, which devoted a separate section of the law to the Consumer and Homemaking program area. Increases were reported in Foods and Nutrition program enrollments (49.5 percent); Family Relations (50.3 percent); and Consumer Education (25.1 percent). Of the areas highlighted by the legislation, only Home Management exhibited a token increase (6.8 percent). The more general programs of Comprehensive Homemaking and Other Homemaking recorded decreases for the same period.

Enrollment distributions within each program area reflect the changing labor market and technological advances (tables 3.10 through 3.15). In Occupational Home Economics, the Care and Guidance of Children program also showed a substantial increase, from 27.6 percent of all enrollments in the program area for 1972 to 41.6 percent of enrollments in the area in 1979 (table 3.14). Programs in Emergency Medical Technology, not even counted until 1975, constituted 12.7 percent of enrollments in the Health area in 1979 (table 3.13). In the Office Occupations area, programs in typing and related skills have declined as a share of all enrollments, giving way to increases in Accounting and Computing, and Filing and Office Machine enrollments (table 3.15). However, in the Technical and Trade and Industrial areas, relatively little shifting of program shares has occurred among the ten largest programs in each program area (tables 3.16 and 3.17).

Enrollments in vocational education by State permit more detailed reviews of program distribution, enrollment concentrations by level and field, and patterns of reported change. Statistics presented here document estimated total enrollments for the universe of vocational education by type of provider (table 3.18). These numbers, compiled from many sources, may be compared with those showing total enrollments by State under the Vocational Education Act (VEA) by level (table 3.19); occupationally specific enrollments by State under the VEA by level (table 3.20); and those showing total VEA enrollments by instructional program areas (table 3.21).

The impact of the new Vocational Education Data System can be inferred from an examination of the reported enrollment changes in VEA administered programs on a State-by-State basis. An examination of 1978-79 enrollment reported through VEDS compared to enrollment submitted in 1977-78 through the earlier Office of Education collection system reveals that the States and outlying areas are split between those showing declines (26) and those showing increases (28) (charts 3.6 and 3.7 and table 3.22). While actual enrollment increases or decreases are also reflected in these numbers, the staggered pattern of gains and losses implies that the new reporting system has, indeed, had some impact in its first year of operation. However, since only 15 States or outlying areas showed increases or decreases of more than 15 percent, it is doubtful that the full impact of the new definitions, removal of duplication in enrollment counts, and elimination of undercoverage has been realized yet in most of the States.

One check on the quality of those data may be made by comparing occupationally specific vocational education enrollments in grades 11-12 to total educational enrollments (nonvocational as well as vocational) in grades 11-12 (table 3.23). An analysis of the results indicates that eleven States showed occupationally specific enrollments equal to between 60 and 70 percent of total enrollments. Another three States showed occupationally specific vocational enrollments of over 70 percent of the total. These high percentages suggest that duplication is occurring in some instances, even among occupationally specific enrollments, but suggest even more that some States may still be counting course (as opposed to program) enrollments as vocational program enrollees. It is anticipated that as more and more States convert to the use of student-unit based record-keeping systems, to comply with the uniform definitions and procedures required by VEDS, a great deal of the variability revealed in these numbers will disappear. State totals should then stabilize with few, if any, major year-to-year shifts. This is likely to be especially true of occupationally specific program enrollments.



Enrollments in the Consumer and Homemaking Program Area

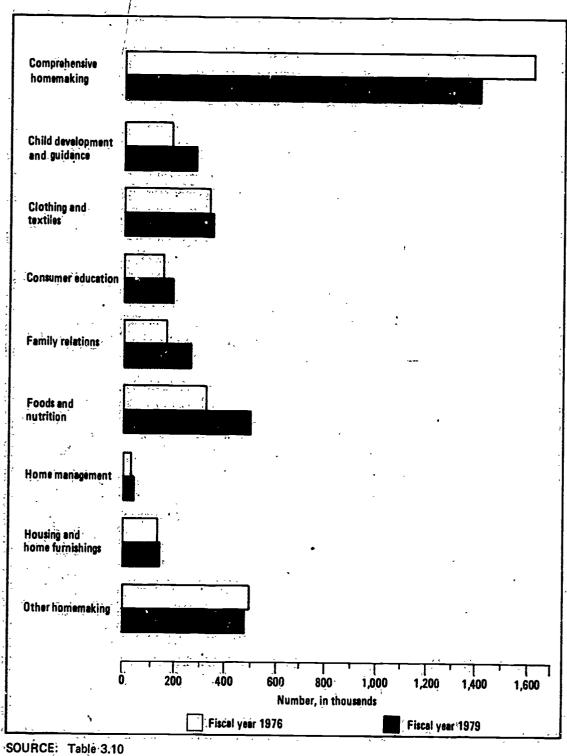
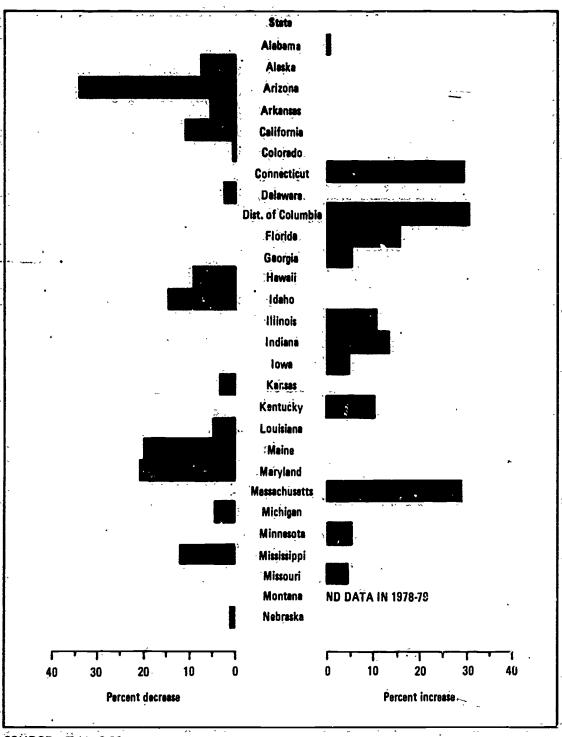




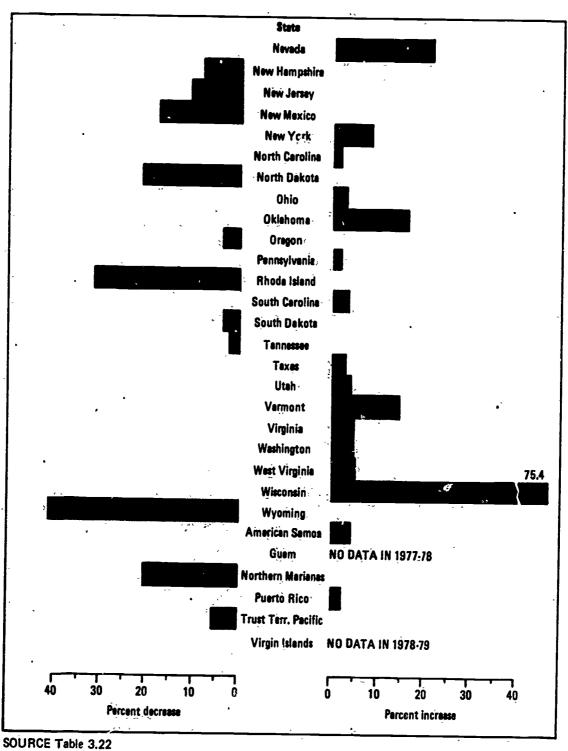
Chart 3.6. Percent Change in Reported Enrollments (VEA) by State: 1977-78 to 1978-79:



SOURCE: Table 3.22



Chart 3,7 Percent Change in Reported Enrollments (VEA) by State: 1977-78 to 1978-79





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Table 3.1. Enrollment in vocational education, by program area and provider: 1978

Type of provider	Total	Agriculture	Distribution	Realth	Occ. home	Office occupations	-Technical	Trade and industrial	Consumer and homemaking	Industrial arts	Other
Total	19,563,1752/	988,773	1,382,044	1,048,285	627,627	4,013,436	737,360	3,956,547	3,758,020	1,684,746	1,018,430
Total-secondary	12,743,1112/	845,754	503,384	214,652	418,043	2,367,187	41,767	2,093,432	3,539,621	1,678,872	
Public secondary schools 1/	12,721,142	845,754	503,384	214,652	418,043	2,367,187	41,767	2,093,432	3,539;621	1,678,872	1,018,430
Private secondary schools.	21,969	NA	NA	NA	, Ka	NA	NA	NA	NA	NA.	N.A
Total postsecondary	6,820,064 ² /	143,019	878,660	833,633	209,584	1,646,249	695,593	1,863,115	218,399	5,874	<u>3</u> /
4-Year institutions of higher education	311,634	11,577	28,925	59,986	20,108	78,306	48,779	63,953	0	0	
2-Year institutions of higher education	4,425,637	118,259	468,810	604,412 ⁻	177,750	1,229,243	478,848	1,124,042	218,399	. 5,874	<u>3</u> /
Public noncollegiate postsecondary schools	743,287 ² /	6,576	18,089	67,651	8,070	.102,081	27,473	221,296	0	0	0
Private noncollegiate postsecondary schools	997,196	2,173	261,868	93 , 900	969	215,959	105,265	317,062	0	0	0
Correspondence, schools	308,423	4,434	100,968	7,684	2,687	. 20,660	35,228	136,762	0	0	0
State correctional faciliti	es 33,887	,NA	· NA	NA.	NA .	Na:	NA-	NA	NA	NA	NA

NA Not available.



^{1/}Includes individuals enrolled in secondary level programs at adult facilities. Numbers represent enrollments covered by the Vocational Education Act only.

^{2/}Details do not add to total because total includes enrollments for which program area counts are not available.
3/Enrollment in the "other" category at the postsecondary level have been provated to the other program areas.

SOURCES: (1) United States Department of Education, National Center for Education Statiatics, Vocational Education Data System, preliminary data; Survey of Noncollegiate Postsecondary Schools; Survey of Nonpublic Elementary and Secondary Schools; Higher Education General Information Survey, Earned Degrees and Other Formal Awards Conferred; (2) Carlson, Richard, National Institute of Education, Vocational Education in the Prison Setting, draft report used by permission; (3) United States Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data; and (4) estimates by the National Center for Education Statistics derived from the above sources.

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Table 3.2 Enrollment in vocational education programs (VEA), by program area and level: 1978-79

Program area	Total	Below grade 11	Grades 11-12	Postsecondary	Adult (Long-term)	Adult (short-term)
Toțal	17,033,620	4,933,537	5,375,894	1,949,558	969,560	3,805,071
Agriculture	964,452	354,644	337,954	49,038	22,061	200,755
Distribution	927,929	68,706	300,086	218,365	57,020	283,752
Health	791,155	30,201	90,799	216,722	98,527	354,906
Consumer and homemaking	3,658,475	1,363,882	1,396,653	30,095	47,790	820,055
Occupational nome economics	577,818	175,547	182,099	61,177	27,156	131,839
Industrial arts	1,681,927	1,113,446	550,531	1,309	25	16,616
Office occupations	3,439,623	728,353	1,315,080	640,692	. 203,856	551,642
Cechnical	472,20G	8,874	18,746	306,126	40,680	97,774
rade and industrial	3,411,796	455,385	990,289	378,451	429,590	1,158,081
ther	1,108,245	634,499	193,657	47,583	42,855	189,651

SOURCE: United States Department of Education, National Center for Education Statistics, Vocational Education Data System.



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Table 3.3

Enrollment in occupationally specific vocational education programs (VEA), by program area and level: 1978-79

Program area	Total	Grades 11-12	Postsecondary	Adult (long-term)	Adult (short-term)
Total	7,625,937	3,039,407	1,794,179	848,711	1,943,640
Agriculture .	493,676	320,589	47, 434.	21,416	104,237
Distribution	762,090	289,167	208,595	56,145	208,183
Health	593,280	85 , 999	205,679	95,597	206,005
Occupational home economics	328,678	162,110	57,977	24,669	83,622
Office occupations	2,246,699	1,086,465	597,149	183,471	379,614
Technical.	418,647	18,331	, 286,485 ´	38,787	75,044
Trade and industrial	2,576,286	952,105	366,580	417,604	839,997
0ther	206,881	124,641	24,280	11,022	46,938

NOTE: Occupationally specific enrollments include students above grade 10 enrolled in programs (except consumer and homemaking and industrial arts) which are designed to train individuals for specific occupations.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System.

TABLE 3.4 -- ENRULLHENT IN OCCUPATIONALLY SPECIFIC PROGRAMS (VEA), BY LEVEL AND BY INSTRUCTIONAL PROGRAMS 1978-79

			PNU		
PRUGRAM	TOTAL,	GRADES	P081-	AUUL7	ADULT
AGRICULTURAL PRODUCTION	178,487	146,045	14,408		
ABRICULTURAL SUPPLIES/SERVICES ABRICULTURAL MECHANICS	19,604	14,016	4,342	10,234 1,246	69,878 3,264
ABRICULTURAL PRODUCTS	70,671 5,317	65,975	3, 061	1,435	11,117
IOR71CUL7URE	74,438.	3,913 52,77 8	1,282 14,902	122 6,758	3,381
MENENABLE NATURAL RESUURCES	15,997			•	12,611
ORESTRY	12,501	11,397 9,220	4,088 2,933	512 348 ·	1,336
PRES AGRICULTURE DVERTIBING BERVICES	20,224	17,245	2,418	561	620 2,830
PPAREL & ACCESSORIES	9,344 25,604	4,511 16,372	4,410 8,437	423	4/691
UTONOTIVE			0,43/	795-	2,671
INANCE & CREDIT	6,591 25,398	5,568 3,04 8	526	497	567
LORISTRY	2,895	1,571	20,386 616	1,964 70 8	15,895 3,873
OOD DISTRIBUTION OOD SERVICES	25,322	20,574	2,114	2,629	4,363
,	29,257	25,169	2,862	1,226	167554
EMERAL MERCHANDISE ARDMARE, SUILDING MATERIALS, ETC.	195,507	153,460	33,648	8,199	37,533
ONE FURNISHINGS	3,454 2,304	3,286 1,387	, 83	65	1,470
OTEL & LOCGING	11,752	1,985	790 8,922	127 845	:586 6,19 9
NOUSTRIAL MARKETING	17,602	1,909	14,600	1,093	6,654
NBURANCE	6,472	224	3,031	2,555	
ERSONAL SERVICES EAL ESTATE	5,435	4,874	519	34	10,838 10,132
ECREATION & TOURISH	99,173 14,154	1,084	72,7,61	25,628	60,780
RANSPURTATION,	10,606	2,865 2,805	8,580 6,438	2,70 9 1,363	3,303 5,7 8 6
THER-RETAIL TRADES	45 333		,		37701
THER DISTRIBUTIVE EDUCATION	15,273 47,7 8 4	11,124 26,685	3,607 16,360	542 4,739	2,993
ENTAL ASSISTING . ENTAL HYGIEHE(ASSOCIATE DEGREE)	16,025	5,809	4,823	5,393	13,295 2,259
INTAL LABORATORY TECHNOLOGY	6,496 3,252	572	6,445	45	66
•	3/636	316	2,144	534	371
EDICAL LABORATORY ASSISTING THER HEDICAL LABORATORY TECHNOLOGY	13,143	2,505	9,739	699	1,225
MBING(ABSOCIATE DEGREE)	4,026 90,733	144 122	3,633 86,180	249 2,431	499
PACTICAL(VOCATIONAL)NURSING JR 81NG A8818TANCE(AIDE)	71,300	6,453	18,643	46,270	10,082 9, 505
warm wastalweeffathe)	44,319	24,859	5,650	11,610	44,546
THER NURSING	12,101.	2,544	4,712	4,845	7,481
[MABILITATION \ NDIOLOGIC TECHNOLOGY(X=RAY)	5,775	354	5,096	325	753
ENTAL MEALTH TECHNOLOGY	10,789 10,526	- 202 - 202	9,984 9,333	752 99 1	348
HALATION THERAPY	10,121	220	7,787	2,114	862 907
DICAL ASSISTANT	18,214	8,432	5,742		
MMUNITY HEALTH AIDE	7,716	6,177	1,182	3,840 357	9,812 2,343
IDICAL EMERGENCY TECHNICIAN THER-HEALTH OCCUPATIONS EDUCATION	14,878	394	7,509	6,475	60,285
RE & BUIDANCE OF CHILDREN	47,795 101,553	24, 9 53 50,243	15,077 37,729	7,765	32,461
OTHING HET., PRODUCTION, & SERVICES		-	317164	13,581	34,611
OO HET., PRODUCTION, & SERVICES	31,463 60,690	24,429 67,535	4,232	5.05	15,300
ME-FURNA,EQUIPMENT, & BERVICES	4,268	3,276	8,328 4,000	4,737 1,992	20,327 8,7 8 4
ISTITUTIONAL & HOME HGT. & BUP. HER OCCUP. FREP. FOR HOMEMAKING	5,799	4,968	344	467	2,077
**	16,073	11,459	3,344	1,070	2,443
COUNTING & CUMPUTING UCCUPATIONS	402,004	229,944	141;563	30,497	70,807
MPUTE & CONSOLE OPERATORS OGRAMMERS	25,703 . 62,359	7,209 . 11,181	14,798 46,718	3,696	7.320
MER SUBINESS DATA PROCESSING	79,111	33,507	32,371	4,460 13,233	5,092 1 9,3 00
LING, OFFICE HACHINES, & GEN. OFF.	419,972	337,578	41,625	40,769	55,839
FURNATION, COMMUNICATION DECUP.	21,997	6,491	10,101	5,005	7,321
TERIALS SUPPORT OCCUPATIONS RSONNEL, TRAINING, & RELATED	2,046	1,714	880	252	245
ENDGRAPHIC, BECRETARIAL, & RELATED	18,639 428,656	2,894 240,656	12,226 138,515	3,519 49,485	22,001
PERVISORY B. ADMINISTRATIVE HGT.	155,540	10,487	134,926	10,127	69,584 28,059
PING & RELATED OCCUPATIONS	197,308	166,536	11,302		
HER. OFFICE OCCUPATIONS	52,950	37,568	12,124	19,170 3,250	#2,21 6 11,#30
CHITECTURAL TECHNOLOGY TOMOTIVE TECHNOLOGY:	25,100	1/064	21,507	1,929	2,282
AIF - LECHNOFORA	8,90 8 15,551	55 9 454	7,737 13,476	516	570
ECTRICAL TECHNOLOGY				1,621	4,563
ECTRONIC TECHNOLOGY	15,335 78,795	-1,679 5,810	12,627	829	7.200
VIRONHENTAL-CONTROL TECHNOLOGY	6,036	218	61,634 5,072	11,351 746	15,142 978
DUSTRIAL TECHNOLOGY CHANICAL TECHNOLOGY	11,649 23,590	119 729	11,164	366	7,112
			19,392	3,469	2,914



TABLE, 3-4 -- ENROLLMENT IN OCCUPATIONALLY SPECIFIC PROGRAMS (VEA), BY LEYEL AND BY INSTRUCTIONAL PROGRAMS 1978-79-CONTINUED

		*********		OGRAM LEVEL		
PROGRAM	TOTAL	GRADES	POST- -SECUNDARY	ADULT (LONG-TERM)	ADULT	
IENTIFIC DATA PROCESSING	14,967			2,550	4	
MMERCIAL PILOT TRAINING	8,328	29	7,650		1,794 1,358	
RE & FIRE SAFETY TECHNOLUGY	11.045	14	10,145		7 444	
LICE OCIENCE TECHNOLOGY	.57,494	225	52,951	4.718	3,603	
HER TECHNICAL EDUCATION	63,627	14 225 4,096	52,951 50,946	4,718 8,585	12,003	
TER B. MASTE HATEN TECHNOLOGY	2,738	3	2,299	436	2,667	
R CONDITIONING	48,917 12,736	16,030	13,243		19,160	
PLIANCE MEPAIR DY & FENDER REPAIR	12,736	7,975			1,633	
TO MECHANICS	65,761 232,659	41,660	9,723 32,651	14,378 38,030	14,653 49,752	
TOMOTIVE SPECIALIZATION	.24,626	17,478		4,774	5,025	
TATION UCCUPATIONS	22,360	0,511	7,552	6,297	. 3,063 6,441	
MERCIAL ART OCCUPATIONS	44,253	16,519	24,119	3,615	4,945	
MMERCIAL PHOTOGRAPHY OCCUP.	22,031	6,523	12,071	3,437	7,314	
RPENTRY	114,062	70,43A	13,240	30, 364	25,179	
ECTRICITY	36,615,	17,786	2,938	16,089	20,031	
MARY 1	29,201	19,559	1,200	8,442	10,067	
MOING & PIPEFITTING	22,843	7,064	1,303	14,396	14,447	
MER-COMSTRUCTION & MAINTENANCE BTDDIAL-BERVICES	84,352	50,322	10,571	-23, 139	30,756	
	9,495	5,791	1,377	2,327	4,265	
EBEL·MECHAMIC AFTINB-OCCUPATIONB	\$5,255	6,470-		8,000	4,037	
ICTRICAL GCCUPATIONS	96,773 39,036	58,352 18,268	- :22,947 4,085	15,474	18,203	
ICTRONICA OCCUPATIONS	83,775			16,683 19,921	37,541 24,192	
REMANSHIP, SUPER., 8 HGT. DEVEL.	18,740	1,407	12,972	4,359	42,711	
APHIC'ARTS OCCUPATIONS	69,162 2,510	51,515	10,083	7,564	8,580	
STRUMENT HAINTEHANCE & REPAIR	2,510	630	764	1,116	1,407	
ATTIME OCCUPATIONS	4,522	1,287	1,245	1.990	.3,274	
ENINE SHOS ENINE TOOL OCCUPATION	172,802	40,284	12,663	.19,635	29,755	
	6,891	2,598	5,563	2,030	4,492-	
ÉETEMETAL : LDING 8 CUTTINS:	16,906 109,299	8,337 45,038	1,297	2,272	5,858	
L B-DIE-MAKING		45,038 747	26,860	37,401	43, 439	
MER METALMORKING OCCUPATIONS	27.401	22,102	859 2,037	3,116	4,918	
ALLURAY OCCUPATIONS	27,601 1,209	891	265	3,112 3,462 53	• • • • • • • • • • • • • • • • • • • •	
SHETDLOGY	82,664	54,191	7,646	18.847	4,916	
IER PERBONAL SERVICES	5,416	3,088	1,314	1.014	2,996	
ATICS OCCUPATIONS	2,904	2.250	424	-228"	2,329	
reman - training	12,717	1.015	·9,232 44,681	2,470 4,254	164,014	
I ENFURCEMENT TRAINING	52,862	3,727	44,681		36,508	
HER PUBLIC SERVICE OCCUPATIONS ANTITY-FOOD-OCCUPATIONS	19,944	3, 636	13,241	3,067	45,565	
RIGERATION	34,874 2,748	22,824 9 86	5,874 869	6,176	7,635	
ALL ENGINE REPAIR	22.005	14,694-	15973	073 A. 128	2,674 10,884	
NTIONARY ENERBY SOUNCES OCCUP.	22,995 1,493	558	131	3,067 6,176 693 6,328 804	5,676	
TILE PRODUCTION & PARTICATION			3,978	5,524	12,962	
iolatering	7,145	3,007	887	3,251	6,650	
OHORKINS OCCUPATIONS	32,447	26,730	1,946	3,771	16,302	
ER TRADE & INDUSTRIAL OCCUPATIONS	90,931	53,402	13,157 21,442	34.173	50,740	
CTILE PRODUCTION & FABRICATION COLSTERING DONORKING OCCUPATIONS ER TRADE & INDUSTRIAL OCCUPATIONS HER PROGRAMS, GREATER THAN IX OF TOTAL HER PROGRAMS, LESS THAN IX OF TOTAL HER PROGRAMS, LESS THAN IX OF TOTAL	128,324 31,619	96,322 28,319	21,442	- 10,560- 462	38,990 7,948	
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SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA BYSTEM.



NOTES: TABLE INCLUDES IMPUTED DATA.
TOTAL COLUMN EXCLUDES SHORT-TERM ADULTS.

TABLE 5.5 -- ENRULIMENT IN COOPENATIVE EDUCATION PROGRAMS, BY PROGRAMS 1978-79

PRUGRAM	COUPERATIVE VUCATIONAL EDUCATION ENHOLLMENT	PROGRAM PROGRAM PROGRAM PRINCESSING COMMERCIAL PILOT TRAINING	COUPERATI VUCATIONA EDUCATION
	**************************************	РКИМИ	13H_J_OR# <u>5</u>
RICULTUNAL PRODUCTION	8,187 3,679 5,278 1,054	SCIENTIFIC DATA PHICESSING	444
RICULTURAL SUPPLIES/SERVICES RICULTURAL RECHANICS RICULTURAL PRODUCTS RTICULTURE	3,619	SCIENTIFIC DATA PHICESSING COMMERCIAL PILOT TRAINING	30
RICULTURAL PRODUCTS	1,054	POLICE SCIENCE TECHNOLOGY	61
RTICULTURE	3,754	COMMERCIAL PILOT TRAINING FIRE S-FIRE SAFETY TECHNOLOGY POLICE SCIENCE TECHNOLOGY OTHER TECHNICAL EDUCATION MATER S. MASTE MATER TECHNOLOGY AIR COMDITIONING APPLIANCE REPAIR BODY S FENDER REPAIR AUTO MECMANICS	835 1,421
NEMABLE NATURAL RESUURCES	249	WATER & MARTE MATER TECHNIN NEV	76
MESTRY .	26 9 468	AIR CONDITIONING	1,193
MER AGRICULTURE PERTISING SERVICES	5,912	APPLIANCE REPAIR:	1,148
PAREL & ACCESSORIES	1.894	BODY & FENDER REPAIR AUTO MECHANICS	3,012 11,317
TUNUTI VE		ALIEANARCHE AREAS ANA ANA ANA	11/311
NANCE & CREDIT	3,416 2,213	AVIATION OCCUPATIONS	1,872 2 9 9
URISTRY	480	COMMERCIAL ART OCCUPATIONS	1/139
OD DISTRIBUTION OD SERVICES	14,622 17,315	AUTOMOTIVE SPECIALIZATION AVIATION OCCUPATIONS COMMERCIAL ART OCCUPATIONS COMMERCIAL PHOTOGRAPHY OCCUP. CARPENTRY	436
			7/471
MERAL MERCMANDISE Monare, Building Haterials, etc. Me furntsmings	69,702 2,344	ELECTRICITY Masonry	1,137
	734	PLUMBING & PIPEFITTING	1,264 2,109
TEL & LODGING	1,667	UTHER CONSTRUCTION & MAINTENANCE	6,894
DUSTRIAL MARKETING	6,441	CUSTODIAL.SERVICES	2,830
SURANCE	452	DIESEL MÉCHANIC	880
RSONAL SERVICES AL'ESTATE	3,515	DRAFTING OCCUPATIONS	2,296
CREATION 8-TOUPISH	3/300 2.021	ELECTRONICA OCCUPATIONS-	2,598
ANSPORTATION	452 3,212 3,566 2,023 1,353	DIESEL MÉCHANIC DRAFTING OCCUPATIONS ELECTRICAL OCCUPATIONS ELECTRONICS OCCUPATIONS FOREHAMSHIP, SUPER., S.MGT. DEVEL.	2,216 1,796
MER RETAIL TÀ 578 MER DISTRIOUTIVE EDUCATION NYAL-ASSISTING	1,393 5,043 15,796		3,484
HER DISTRIBUTIVE EDUCATION	15,196	INSTRUMENT MAINTENANCE & REPAIR	3,101 262
NYAL-ASSISTING NTAL HYGIENECASSOCIATE OFGREET	1,100	MARITIME OCCUPATIONS	687
NTAL HYGIENECASSOCIATE DEGREE) NTAL LABORATURY TECHNOLOGY	153 127	GRAPMIC*ARTS OCCUPATIONS INSTRUMENT MAINTENANCE & REPAIR MARTIME OCCUPATIONS MACHINE SHOP MACMINE TOOL OCCUPATION	4,532 555
DICAL LABORATORY ASSISTING MERIMEDICAL LABORATURY TECHNOLOGY	511	Aug	
MER MEDICAL LABORATURY TECHNOLOGY	147	MELDING & CUTTING	1,291 2,866
RBING(ABBUCIATE DEGREE) ACTICAL CHOCATIONAL DELIGRANC.	861	TOOL & DIE HAKING	119
MER: MEDICAL LABORATURY TECHNOLOGY RSIME(ASSOCIATE DEGREE) ACTICAL (VOCATIONAL) NURSING- RSING ASSISTANCE (AIDE)	3,261	MELDING & CUTTING TOOL & DIE MAKING OTHER HETALWORKING OCCUPATIONS METALLURGY OCCUPATIONS	1,974
HER HUMSING	411		•
MABILITATICY	435	OTHER PERSONAL SERVICES	1,720 1,121
DIOLOGIC TECHNOLUGY (X-RAY)	435 113	PLASTICS OCCUPATIONS	307
NTAL MEALTH TECHNOLOGY MALATION THERAPY	978 231	COSMETOLOGY OTHER PERSONAL SERVICES PLASTICS OCCUPATIONS FIREMAN TRAINING FREGULATIONS FREGULATIONS	337
* *		PUN EULOUCEUENIS INVINTUP	991
PECAL ASSISTANT MAUNITY MEALTH AIDE DICAL EMERGENCY TECHNICIAN	109	OTHER PUBLIC SERVICE OCCUPATIONS	1,393
DICAL EMERGENCY TECHNICIAN	134	GUANTITY FOUD OCCUPATIONS REFRIGERATION	8,084
HER HEALTH UCCUPATIONS EDUCATION	6,153	SHALL ENGINE REPAIR	145 858
NE. B. GUIDANCE OF CHILDREN	T09 905 134 6,153 8,697	STATIONARY ENERGY SOURCES OCCUP.	45
OTHING MET., PRODUCTION, & SÉRVICES DO MET., PRODUCTION, & SERVICES ME.FURN, EQUIPMENT, & SERVICES STITUTIONAL & MOME MET. & SUP.	2,147	TEXTILE PRODUCTION & FABRICATION	3,650
AU MUTA; PRODUCTION; 8 SERVICES AE:FURN_AEQUIDMENT, 2 SERVICES	15,572	UPHOLSTERING '	423
NE-FURNA, EBUIPMENT, & BERVICES BTITUTIONAL & MOME MGT. & BUP. MER DECUP. PREP. FOR MOMEMAKING.	1,659	MANUFURGING UCCUFATIONS OTHER TRADE & INDUSTRIAL INCURATIONS	2,130
HER DECUP. PREP. FOR MOHENAKING.	6,306	TEXTILE PRODUCTION & FABRICATION UPHOLISTERING HUDDHURKING OCCUPATIONS OTHER TRADE & INDUSTRIAL OCCUPATIONS OTHER PROGRAMS, GREATER THAN 12 OF TUTAL UTHER PROGRAMS, LESS THAN 12 OF TOTAL	3,650 423 2,730 25,681 43,576
COUNTING 'S COMPUTING OCCUPATIONS	15,104	OTHER PROGRAMS, LESS THAN 12 OF TOTAL	19,496
MPUTE & CUNSOLE OPERATORS	•••	•	
DERAMMERS. MER SUSIMESS DATA PROCESSING	1,678	TUTAL	536,961
ING, UPFICE MACHINES, & GEN. UFF.	26,800	,	
ORMATION, COMMUNICATION OCCUP.	1,589	×	
TERIALS SUPPORT UCCUPATIONS	800		
ISOMMEL, TRAINING, & RELATED IMOGRAPHIC, SECRETARIAL, & RELATED	3,641		
ERVISORY'S ADMINISTRATIVE HET.	28,418 2,501	·	
ING & RELATED UCCUPATIONS	14,021		
ER OFFICE OCCUPATIONS	13,117		
HITECTURAL TECHNOLOGY	1,003		
OMOTIVÉ TECHNOLOGY ILL TECHNOLOGY	175 530		
ETRICAL TECHNOLUCY	174		
CTRUNIC TECHNOLOGY	1,350	•	
IRONHENTAL-CONTROL TECHNOLOGY	119		
PUSTRIAL TECHNOLOGY PANICAL TECHNOLOGY	355	·	

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION SYSTEM.

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TABLE 3.6 -- EHROLLMENT IN COUPERATIVE EDUCATION PROGRAMS, BY STATE OR OUTLYING AREAS 1978-79

	COUPERATIVE VOCATIONAL EDUCATION	***************************************	,,,,,,,
STATE OR OUTLYING AREA	ENROLLHENT	***************************************	
ALABAMA		***************************************	,••••
ALABKA ARI 20ma -	656		
ARKANSAS	5,450.		
<u>California</u>	25, 352	•	
COLORADU	8,700		
COMMECTICUT DELANARE	5,444 2,540		
DISTRICT OF CULUMBIA	1,121		
'LORIDA	33,460		
BEORBIA Manaii	19,855 2,246	•	
EDAHO OHA G	4,026		
illinois. Indiana	35,412 772	•	
I ŎĸA			
CANBAS	4,313		
CENTUSKY LOUISIANA .	5,689 6,396		
MINE	1,950	· ·	
MARYLAND	10,471		
MABBACHUSETTS MICHIGAN	4,320		
INNESOTA.	22,410 14,636		
11801801PPI	4,303		
ilaguri Ilaraska	0.		
NEVADA	2,727 431	•	
vem Hampshire Vem Jersey	1,008		
	15,942		
MEN MEXICO MEN YORK	2,865 21,195		
IORTH CAROCINA IORTH DAKOTA	20,205		
MIO	2,163 41,041	•	
MLAHÓMA	6/729	•	
regon Pennsylyan 1a	. 0,507		
HOOE ISLAND	22,241 1,120	•	
OUTH CAROLINA	7,540		
ATOXAG HTUC	1,794	·	
'ENM C 88EE 'Exa s	8,716 87,784		
ITAH .	7,374		
ERMONT	1,003		
irsinia Iashinston	18,079 18,304	•	
EST VIRGINIA	3,369		
iscombin Yoming	3,270		
TOTAL U.S.	-		
	528,820		
MERICAN SANGA WRTHERN HARIANAS	27 61		
WAN	9 1		
UERTO RICO RUBT TEHRITORY	7,802 160		
OUTLYING AREAS	0,141		
.S. AND OUTLYING AREAS	530,961		

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VUCATIONAL EDUCATION DATA SYSTEM.



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Table 3.7 Enrollments in the consumer and homemaking program area (VEA), by level and program: 1978-79

Program	Total	Below grade 11	Grades 11-12	Postsecondary	Adult (long-term)	Adult (short-term)
Total	3,658,475	1,363,882	1,396,653	30,095	47,790	820,055
Comprehensive homemaking	1,424,290	804,225	363,087	3,108	3,753	250,117
Child development & guidance	285 ⁻ ,777	52,617	134,381	1,526	19,589	77,664
Clothing & textiles	348,760	97,940	130,193	1,321	. 3,208	116,098
Consumer education	194,027	41,724	69,872	4,520	484	77,427
Family health	19,797	2,756	6,784	0	80	10,177
Family living and parenthood education	272,827	. 58,753	170,603	665	471	42,335
Foods & nutrition	505,783	139,719	248,474	1,880	1,941	113,769
Home management	44,094	10,527	21,431	304	288	11,544
Housing & home Fürnishings	135,585	27, 198	55,664	695	2,228	49,800
Other homemaking	427,535	128,423	196,164	16,076	15,748	71,124

SOURCE: U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System.



Table 3.8
Distribution of vocational education enrollments (VEA), by program area: Miscal years 1973-1979

Instructional	Fiscal~year								
program area	1973	1974	1975	1976	1977	1978	1979		
•		,	Percenta	nge distr	lbutions		,		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Agriculture	11.6	11.1	10.8	10.8	10.2	9.7	9.1		
Distribution	9.3	9.5	9.3	9.2	9.4	9.2	8.8		
Health	5.3	5.7	6.6	7.0	7.2	7.3	` 7.5		
Occupational home economics	4.0	5.6	4.9	4.8	5.0	4.4	5.5		
Office occupations	31.3	31.4	31.5	31.7	31.7	31.8	32.5		
Technical	4.6	4.5	4.8	4.9	5.0	5.1	4.5		
Trade and industrial	33.9	32.1	32.2	31.7	31.5	32.6	32.1		

NOTE: Enrollments in consumer and homemaking, industrial arts and "other, not elsewhere classified" categories are excluded in determining percentages. Details may not add to totals because of rounding.



Table 3.9
Number and percent change in reported enrollments (VEA), by program area: 1977—78 to 1978—79

Program area	Enrolled in 1977-78	Enrolled in 1978-79	Percent change 1977-78 to 1978-79
All programs	16,704,926	17,033,620	2.0
Agriculture	1,006,542	964,452	- 4.2
Distribution	962,009	927,929	- 3.5
Health	758,808	791,155	4.3
Occupational home economics	459,590	577,818	25.7
Office occupations	3,312,475	3,439,623	3.8
Technical	527,681	472,200	-10.5
Trade and industrial	3,402,722	3,411,796	.0.3
Consumer and homemaking	3,659,441	3,658,475	0.0
Industrial arts	1,492,790	1,681,927	12.7
0ther	1,122,868	1,108,245	- 1.3

SOURCES: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Reports, 1972-78; U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System.



Table 3.10

Number and percent change in reported enrollments in the consumer and homemaking program area (VEA): Fiscal years 1976 and 1979

Program	Enrolled in FY 1976	Enrolled in FY 1979	Percent change FY 1976 to FY 1979
Comprehensive homemaking	1,629,107	1,424,290	- 12.6
Child development and guidance	193,300	285,777	47.8
Clothing and textiles	340,221	348,760	2.5
Consumer education	155,107	194,027	25.1
Family relations	181,517	272,827	50.3
Fcods and nutrition	338,242	505,783	49.5
Home management	41,299	44,094	6.8
Housing and home furnishings	130,066	135,585	4.2
Other homemaking	506,183	447,332	- 11.6

SOURCES: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Summary Data, Vocational Education Fiscal Year 1976, 1977; U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System.



Table 3.11
Distribution of enrollments within the agriculture program area (VEA); Fiscal years 1972-1979

Tropping the same to the same								
nstructional program	1972	1973	1974	1975	1976	1977	1978	19791/
		,	P	ercent. of	program	area tota	1	
Agricultural production	62.9	60.6	56.6	57.4	54.3	53.3	52.6	48.7
Agricultural supplies/services	2.7	2.9	3.1	3.0	2.8	3.0	3.3	4.6
gricultural mechanics	14.4	15.6	14.2	13.5	14.0	13.5	13.3	16.6
gricultural products	1.1	1.3	1.0	1.1	1.5	1.4	1.3	1.8
rnamental horticulture	6.3	7.6	8.9	10.4	11.2	12.2	13.0	17.6
gricultural resources	2.7	3.0	2.2	2.7	2.7	2.6	2.4	3.5
'orestry	2.0	2.0	2.4	1.9	1.9	1.9	2.2	2.7
ther	7.9	7.0	11.7	10.1	11.8	12.0	12.0	4.5

Based on occupationally specific enrollments above grade 10 only.

NOTE: Details may not add to totals because of rounding.

SOURCES: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Reports, 1972-1978; United States Department of Education, National Center for Education Statistics, Vocational Education Data System.



Table 3.12 Distribution of enrollments within the distribution program area (VEA): Fiscal years 1972-1979

				Progra	m yéar	<u></u> _	<u></u>	· · · · · · · · · · · · · · · · · · ·
Instructional program1	1972	1973	1974	1975	1976	1977	1978	19792
	 	R J	<u>P</u> ,	ercent of	program	area tota	1	;
Apparel and accessories:	3.9	3.3	3.3	2.9	2.8	3.2	3.3	3,.7
inance and credit	4.4	4.6	4.8	6.2	6.1	5.5	5.1	5.4
ood distribution	455.	4.4	- 3. . 8	3.8	4.0	3.7	3.9	3.9
ood services	5.3	.5.8	5.1	4.9	5.3	5.2	6.0	- 6 •0
General merchandising	32.0	32.4	30.6	32.2	32.2	32.3	29.5	30.6
otel and lodging	2.0	1,.8	1.4	1.9	2.0	2.3	2.0	2.4
Industrial marketing	1.3	1.7	2.1	2.5	3.0	2.3	2.3	3.2
Personal services	2.8	2.6	2.4	2.6	2.0	2.1	2.0	2.1
Réal èstate	12.8	15.3	16.3	13,5	14.7	16.5	20,2	21.0
Recreation and tourism	2.0	2.4	1.9	2.5	2.7	2.6	2.8	2.3

^{1/} List represents ten largest distribution programs in program year 1978.

Base; on occupationally specific enrollments above grade 10 only.



Table 3.13
Distribution of enrollments within the health program area (VEA): Fiscal years 1972-1979

The amount of 1900 of 1/				Progr	am year				
Instructional program	1972	1973	1974	1975	1976	1977	1978	1979 <u>2</u> 7.	
,	* -	,	P	ercent o	f program	area tot	al		
Dental assistant	4.6	4.0	4.1	3.3	3.1	3.2	2.9	3.1	
Medical lab. assistant	3.1	2.7	1.5	1.7	2.3	2.3	2.4	2.4	
Nursing (assoc. degree)	19.3	18.5	17.9	16.6	15.3	15.1	15.3	17.0	
Practical (vocational) nursing	24.6	22.3	17.6	15.1	14.4	13.3	12.5	13.6	
Nursing assistant (aide)	17.5	17.8	16.5	17.0°	17.0	15.7	15.5	18.7	
Other nursing	NA	NA	NA	6.7	6.7	7.6	7 . 0	3.3	
Mental health technology	1.2	1.6	1.6	1,7	2.3	1.9	2.0	1.9	
Medical assistant	3.1	3.4	3.6	3.0	3.6 .	3.8	4.2	4.7	
Health aide	2.5	2.4	2.4	2.9	2.2	2.1	2.1	1.7	
dedical emergency technology	NA	NA	NĄ	-7 . 5	7.9	/9 . 5	11.6	12.7	

NA Not applicable.

List represents ten largest health programs in program year 1978.

Based on occupationally specific enrollments above grade 10 only.

Table 3.14
Distribution of enrollments within the occupational home economics program area (VEA): Fiscal years 1972-1979

		<u>.</u>		Progra	am year			
Instructional program	1972	1973	1974	1975	1976	1977	1978	19791/
		· · · · ·	P	ercent of	program	area tota	1	·
Care and guidance of children	27.6	25.8	20.3.	27.8	30.6	31.2	33.4	41.4
Clothing mgt. & production services	21.3	19.6	19.6	24.2	22.4	20,5	15.4	14.3
Food mgt. & production services	27.7	29.0	23.4	27.9	29.1	30.4	32.9	30.7
Home furnishings, equip., & services	7.6	:6.3	5.6	7.2	7.0	6.9	6.4	5.5
Institutional & home management	2.9	3.9	3.4	3 .5	2.6	3.1	3.9	2.4
Other occup, home economics	13.1	15.7	27.7	9.5	8.2	7.8	8.1	5.6

Based on occupationally specific enrollments above grade 10 only.

NOTE: Details may not add to totals because of rounding.

SOURCES: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Reports, 1972-78; United States Department of Education, National Center for Education Statistics, Vocational Education Data System, preliminary data.



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Table 3.15
Distribution of enrollments within the office occupations program area (VEA): Fiscal years 1972-1979

Instructional program				Progr	am year			
	1972	1973	1974	1975	1976	1977	1978	1979 <u>1</u> /
•	•		P	ercent of	program a	area total	L	
Accounting and computing	15.0	15.4	15.6	16.0	16.4	17.3	17.8	21.0
Business data processing occupations	6.7	6.2	5.8	6.2	6.2	6.4	6.6	8.7
Filing, office machines, clerical	16.9	17.2	18.5	18.3	19.0	22.4	21.7	21,2
Information and communication	1.0	1.2	1.1	1.4	1.3	1.3	1.4	1,3
Materials support, transportation, etc.	0.4	0.3	0.6	0.3	0.2	0.2	0.1	0.1
Personnel, training and related	0.6	0.8	1.0	1.7	1.5	1.5	1.8	1.8
Steno., secretarial and related	23.4	24.3	23.8	22.6	22.5	22.2	21.1	22.2
Supervisory and admin. mgt.	3.3	3.4	4.0	4.4	4 • 7	4.7	6.4	8.2
yping and related	26.7	25.2	24.0	22.6	21.1	17.2	17.6	12.4
ther office occupations	6.0	6.0	5.8	6.5	7.0	6.7	5.4	2.9

Based on occupationally specific enrollments above grade 10 only.

NOTE: Details may not add to totals because of rounding.

Table 3.16
Distribution of enrollments within the technical program area (VEA): Fiscal years 1972-1979

1.7	<u> </u>	مرمیه و د و	, •		am year			
Instructional program1/	1972	1973	1974	1975	1976	1977	1978	1979 <u>2</u> /
	<u>, </u>	,	, P	ercent of	program	area tota	1	
Architectural technology	4.2	4.4	5.7	5.0	5.2	4.9	5.8	6.5
Automotive technology	2.2	2.6	1.9	2.2	2.2	2.8	2.7	2.3
Civil technology	6.0	7.2	6.8	6.8	6.0	5.5	5.7	6.0
Electrical technology	4.7	4.5	4.7	5.1	~~; 5. 0	5.3	4.7	5.4
Rectronic technology	19.1	18.9	19.0	18.4	17,•4.	16.3	17.1	22.4
Industrial technology	3.5	' 3.0 -	3.8	4.8	4.3	3.7	3.4	-4.5
fechanical technology	7.8	7.1	7.0	-6 . 7	5.9	5.1	5.7	6.3
Scientific data technology	5.0	4.4	5.1	3.8	.3.8	3.2	. 3. 0	4.0
ire & fire safety technology	2.6	2.8	3.6	3.7	5.1	5.5	5.5	4.3
Police science technology	13.0	14.6	15.3	17:4	18.9	19.1	20.0	14.7

^{1/} List represents ten largest technical programs in program year 1978.

Based on occupationally specific enrollments above grade 10 only.

Table 3.17
Distribution of enrollments within the trade and industrial program area (VEA): Fiscal years 1972-1979

Instructional program 1/	1070		.	Progr	am year			•
Instructional program-	1972	1973	1974	1975	1976	1977	1978	19792
	·		P	ercent. of	program	area tota	11	
Automobile mechanics	9.5	10.1	10.9	9.9	11.8	11.4	10.0	10.9
Other automotive	4.0	3.9	4.5	5.8	4.9	5.4	5.9	4.3
Carpentry	4.0	4.1	4.4	4.6	4.9	4.9	4.8	5.4
Other construction & maintenance	8.7	9.2	9.8	10.2	9.5	10.0	9.3 ⁻	9.6
Drafting occupations	5.3	5.2	5.1	5.1	4.9	4.6	4.5	4.5
dectrical occupations	3.4	3.9	3.5	3,8	3.1	3.3	3.5	3.0
lectronics occupations	4.1	4.0.	4.3	4.3	4.5	4.5	4.3	4.2
Graphic arts occupations	2.9	2.7	2.9	3.1	3.2	3.2	3.2	3.0
letalworking occupations	12.2	11.7	13.3	13.2	14.3	14.0	13.2	13.7
irefighter training	6.6	7.7	4.4	2.9	2.2	2.4	5.5	6.9

^{1/} List represents ten largest trade and industrial education programs in program year 1978.

Based on occupationally specific enrollments above grade 10 only.

Table 3.18 Enrollment in vocational education, by provider and by State or outlying area: 1978

State or outlying area	Total	Public secondary schools 1	Private secondary schools	4-Year institutions of higher education	2-Year institutions of higher education	Public noncollegiate postsecondary schools	Private noncollegiate postsecondary schools	Correspondence schools	State correctional facilities	
Total	19,563,175	12,721,142	21,969	311,634	4,425,637	743,287	997,196	308,423	33,887	
Alabana	238,857	167,445	189	4,726	31,663	26,117	8,667	0	50	
Alaska	41,915	24,805		88	14,815	661	1,366	147	NA	
Arizona	279,834	161,540	174	2,093.	75,742	3,682	32,480	3,435	688	
Arkansas	162,803	138,208	97	2,600	4,125	10,730	5,950	ð	1,093	
California	2,434,066	1,141,144	2,065	13,753	1,004,314	42,874	171,381	54,951 ·	3,584	
Colorado'	214,992	97,778	78	5,378	60,389	14,285	36,014	711	359	′ ′
Connecticut	236,436	197,915	57	4,876	16,635	2,739	13,764	0	450	
Delaware	71,995	49,643	54	940	16,153	0	1,351	3,679	175	
District of Columbia	61,744	22,478	74	2,280	0,	803	6,125	29,759	225	
Plorida	1,237,052	860,794	421	10,669	261,500	64,894	32,108	4,136	2,530	
Georgia	459,472	377,991	198	2,499	10,492	47,879 <u>2</u> /	20,030	383	NA	
Havaii	64,181	41,523	269	2,597	16,203	47,075	3,545	0	38	
Idaho	47,649	31,031	0	2,196	8,700	4,480	1,142	ŏ	100	
Illinois	934,756	572,367	1,027	11,425	229,270	3,425	66,439	48,294	2,509	
Indiana	250,170	124,270	458	11,384	93,733	5,076	12,608	131	2,500	
•	•	•			•	-				
Iowa`	335,508	112,344	400	172	215,879	480	6,233	0	.NA	
Kansas	128,719	92,483	212	3,640	17,993	6,160	7,325	0	906	
Kentucky	313,994	230,251	346	6,927	51,516	10,779	14,175	0	NA	
Louisiana	297,836	245,295	485,	9,943	7,844	20,911	13,107	0	251	
Maine	47,245	26, 363	215	1,446	15,428	1,568	2,159	0	66	
Maryland	316,881	217,850	202	691	83,086	38	14,369	300	345	
Massachusetts	416,726	326,338	1,205	4,772	44,129	4,520	35,052	,510	200	
Michigan	531,979	246,649	1,178	31,748	124,663	3,265	43,270	80,006	1,200	
Hinnesota	499,628	214,889	258	1,638	19,018	247,325 <u>3</u> /	16,180	0	320	
Mississippi	184,774	146,326.	198 -	295	33,410	1,066	2,579	600	300	



Table 3.18
Enrollments in vocational education, by provider and State: 1978 -- continued

State/territory	Total	Public secondary schools1	Private secondary schools	4-Year institutions of higher education	2-Year institutions of higher education	Public noncollegiate postsecondary schools	Private noncollegiate postsecondary schools	Correspondence schools	State correctional facilities
Missouri	282,543	208,380	523			*	* * * *		
Montana	31,103	23,885	323 7	11,186	33,333	5,106	23,541	n	.71
Nebraska	132,544	.69,274	•	715	1,008	3,765	1,673	0 -0	474
Nevada	41,305		436	4,143	32,104	8,933	6,953		50
New Hampshire		29,702	1	382	5,518	Ď	5,552	10,000	701
tion numberiale	53,200	42,257	251	1,984	6,359	82		U	150
New Jersey	000 300	*			,		2,204	0	63
New Mexico	889,625	740,381	742	1,997	73,585	5,994	20.004		
	68,403	54,885	25	2,210	2,432		38,076	27,650	1,200
New York	1,619,624	1,344,006	1,930	13,978	175,850	5,997	2,779	0	75
North Carolina	658,347	283,485	158	4,851		2,084	70,380	6,396	5,000
North Dakota	`50,391	39,381	181	597	355,937	521	12,595	. 0	800
	,	/	101	237	8,961	0	1,256	Ô	15
Chio ´	960,461	764,204	1,296	20, 620				· ·	ŕa
Cklahoma-	223,713	153,194		28,630	108,519	9,638	36,970	10,664	5/0
Orégon	245,444	139,764	154	5,957	36,066	15,921	12,081	10,004	540
Pennsylvania	580,537		65	6,294	76,901	60	22,360	0	340
Rhode Island		375,693	3,614	31,721	74,051	11,953	58,190	U.	NA
Ibrana	51,688	32,485	.10 <u>4</u>	3,460	10,109	724		23,965	1,350
South Carolina	20. 25.			•		7,64	₹ 4, 696	0	110
South Dakota	304,993	171,123	95	1,885	117,749	7,618	F 000		
	38,101	28,764	224	3,650	539		5,972	90	461
Tennessee	332,199	239,594	209	12,841	46,250	1,951	2,873	0	· 100
Texas	1,124,100	776,230	406	9,528	202,782	17,463	15,092	· 0	750
Utah	93,019	64,716	1	5,044		94,92 <u>14</u> /	38,833	150	1-, 250
	-	•	<u>-</u> .	2,044	17,072	4,004	2,107	0	75
/ermont	36,909	29,736	241	2 114				-	,,
/irgini-	502,133	363,746	270	3,114	2,894	120	804	n	O
Mashington	423,173	134,692		5,041	104,722	1,217	23,717	2,224	
Weat Virginia	148,732		371	1,070	262,724	6,650	16,832	32	1,196
/isconsin		118,803	105	8,143	6,627	9,002	5,892		802
	613,299	398,360	599 .	1,395	198,817	4,095		0	160
					• ==	7,000	9,537	21ປ	286

Table 3.18
Enrollments in vocational education, by provider and State: 1978 -- continued

State/territory	Total	Public secondary schools!	Private secondary schools	4-Year institutions: of higher education	2-Year institution of higher education	Public noncollegiate postsecondary schools	Private noncollegiate postsecondary schools	Correspondence	State correctional facilitiès-
***			<u> </u>			.,		- *	
Wyoming	24,577	18,534	58	_. 54	4,943	5	933	0	50
Outlying area					4			•	
American Samoa	2,175	1,756	ŇÃ	Ó	419	ŇA	nā	NA	· NA
Guam	6,156	5,350	NA	234.	572	NA,	NA	NA-	NA
Puerto Rico	204,028	189,619	NA	2,691	1,839	2,000	7,879	0	NA
Trust Territory of the Pacific Islands	4,660	4,405	NA	0	255	NA	.NA	NA	NA
Virgin Islands	5,342	5,279	NA	. 63	' 0	NA	NA	NA	NA
Commonwealth of Northern Marianas	1,739	1,739	NA	, Ō	0	NA .	NA	NA	NA

NA Not available.

Includes individuals enrolled in secondary level programs at adult facilities. Numbers represent enrollments covered by the Vocational Education Act only.

Includes 5,094 enrollments reported through the Vocational Education Data System which cannot be independently verified from other sources.

Includes 209,897 enrollments reported through the Vocational Education Data System which cannot be independently verified from other sources.

Includes 77,060 enrollments reported through the Vocational Education Data System which cannot be independently verified from other sources.

SOURCES: (1) United States Department of Education, National Center for Education Statistics, Vocational Education Data System, preliminary data; Survey of Noncollegiate Postsecondary Schools; Survey of Nonpublic Elementary and Secondary Schools; Higher Education General Information Survey, Earned Degrees and Other Formal Awards Conferred; (2) Carlson, Richard, National Institute of Education, Vocational Education in the Prison Setting, draft report used with permission; (3) United States Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data; and (4) estimates by the National Center for Education Statistics derived from the above sources.



7ABLE 3.10 - ENROCLMENT' (VEA), BY PROGRAM LEVEL AND BY STATE OR OUTLYING AREA!

	w			PRUGNAM LEVEL		
TATE OR DUTLYING AREA	701AL			PRUGHAM LEVEL PUSTO SECONDANY		
5-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	200,193			*******	***********	
ľa s ka	37,964	43,110	75,707	17,616	29,680	15,29
AI 30 NA	115,146	12,112 \$3,404	12,170	10,884	2,616	. ,1,6
AKAMBAR ALAMBAR	100,402	34,943	59,342 64,583	` <u>n</u>	0,000	46,3
ALIFORNIA	1,676,586	367,484	570,000	527	8,469	30,2
DLOGARG '		***************************************	3/0/000	540,695	197,519	193,17
	115,262	19,776	49,396	19,275	24 444	•
DMMECTICUT LLAMARE	288,379 54 ,849	120,610	62,762	19,153	26,613 6,634	30,47
ISTRICT OF COLUMBIA.	22,434	31,100	12,506	6,491	4;664	8,91
ORIBA	453,567	-9,494 445,27/j	11,374	~~59å·	970	10,94
19861A		4431611)	247,329	62,640	100,122	296, 65
MAII	301,499	221,104	121,981	• • • • • • • • • • • • • • • • • • • •		0.0,0,
in a second	49,681	10,424	25,775	36,702 9,398	1,912.	50,50
LINGIA	33,586	12,676	16,657	4,627	4,002	4,12
DIAMA	731,017	258,014	305,596	140,199	218 36,008	10.63
	153,674	44,816	64,712	36,154	6,198	70,/33
WA	123,382	•• **•	•		0,	69,20
MBAB	67,262	27,133 26,787	62,728	7,487	23,974-	244,90
HTUCKY	206,991	72,563	37,346	₹,346	13,701	24,39
UI DI ANA	200, 975	95,175	91,584 80,884	4,372	10,532	45,55
ING	22,162	5,219	13,545		25,796	37,60
AYLANÔ			. 37 343	1,116	5,322	21,19
SSACHUSE 7 TS	-229,766	100,033	86.026	43,707		•
CHIBAN	201,243	48,761	209, 161	21,155	2,226	40,13
MME BOTA"	310,566 °	47,149	168,470	43,424	(11,115	30,16
881 881PP 1	121,626		163, 353	41,161	(117113	50,47
	,	60,452	44,344	6,508	10,316	257,60: -42,75:
BROURI	. 303,490		160,749		*******	46113
Braska Vada	171,972	10,000	35:546	38,759	19,996	39,64
vapa N nampshire	31,222	12,499	13,369	15,527	4,216	27,61
F. JERSEY	40,112	14,911	26,641	3,641 . 5,6 75	1,573	3,92
- 40-001	679,656	440,524	192,597	36, 329	405	500
MEXICO	55,437			, ,,,,,,,,,	10,408	140,250
1 YORK	1,224,819	21,622	. 20,728, 685,748	536	19,351	2,916
TH CAROLINA	379,177	305,769	605,746"	536 147,364	45,918	297,123
TH BAKOTA	35,766 -	4.726.	96,746	46,727	29,504	252,724
9	612,514	372,924	21,663 157,694	3,144 18,933	2,210	11,012
AHOHA		2.27.4		10,433	23,563	212,471
I BOH	139,350	50,000	435944	äa: 4 22		
MBYLVANIA	167,133	33,272	106,492		4,476	63,623
DE ISLAND	1323,592.	01,475	101,113	43,557	9,367 17,447	30,771
TH CAROLINA	35,989 214,161	10,717,	-21,266	3,504	1//44/	110,000
	£1-6101	44,347	40,454	39,615	17,305	7,329 82,292
TO DAKOTA	25,754	11.073	4.4.4.	, , ,	,	*****
3208E.	222,414	101,204	11,634		3,043	3,051
A6	777,451	320,339	73,186 253,576	25,739	19,275	42,54
MONT	43,543	32,630	30,848	154,223 19,354	49,313	296,571
TOTAL F	17,667	5,495	11,598	. 14/324	751	2,209
GINIA `	220.00		,	U	174	12,069
HINGTON	330,494	77,229,	195,985	35,464	21,496	400 100
T-VIRSINIA	230,852 81,167	0°	134,692	46,596	57,564	120,475
CONSIN	469,523	21,796	43,535	12,009	3,027	145,214
HING '	19,922	378,639 8,160	14,365	44,918	31,601	49,645 131,749
	·	04100	10,374	343	145	. 1,023
total u.s.	13,040,264	4,809,340	5,332,000	1,746,750		
RICAN BANĎA-		4 _		1/740/758	958,091	3,761,465
THERM HARIANAS	3,175	972°	750	414		-
імьяя пакаляда Ф.	1,671	1,427	244	. "1	30	· •
		3,136	1,527	292	506	•
7-7ERRITORY	148;313 4,668	115,799,	39,742	1,039	10,433	461
***	-,000	5,463	1,542	255	,	23,145
JUTLYING ÅREAG	102,200	124, 197			•	9
	,	164/14/	43,614	2,800	15,469	53,606
& OUILYING AREA	13,220,549	4,933,537	5,375,494	4 444	·	
	• •			1,949,558	969,560	3,805,071

MOTES: TABLE INCLUDES IMPUTED DATA.
TOTAL COLUMN EXCLUDES SHORT-TERM ADULTS.

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER TOR EDUCATION STATISTICS, "OCAYSUNAL EDUCATION DATA SYSTEM.



TABLE 3.20 -- ENROLLMENT IN OCCUPATIONALLY SPECIFIC PROGRAMS (VEA), BY LEVEL AND BY STATE ON DUTLYING AREAS 1978-74

			PRUS	MAM FEAFF	
STÄTE OR OUTLYSHE AREA	`707ÀL	030AR9 11 0 12	PUB7- BECUNDARY	ADULT (LONG-TERM)	ADULT (8HOH7-7ERH)
ADAMA	101,010	\$8,200	15,401	115,05	14,077
ABMA*	21:611	0,776	10,249	2,506	1/030
1 SONA .	84,146	24,146		á .	20,170
KANSAS LSPORNIA	38,676 1,676,944	372,707	\\$19,277	20;211 2,500 0,469 104,000	164,906
LORADO	01,625	35,410	.19/006	26,709	20,130
IMECTICUT	52,207	.35,704	10,153	6,430	0,937
LANARE	17,900	6,633	6,441	970	10,947
STRICT OF COLUMBIA ORIĐA	12,942 27 4, 572	11,374 122,541	-62,407;	6,436 4,664 970 163,684	.92,305
ORSÎA .	113,731	06,651	25,160	1.012	•
WAII .	31,991	10/241		4,002	2,003
AHO:	14,026	9,550	4,250	210	0,503 57,302
DIAMA DIAMA	352,263 67,247	210,657 -34,573	4,250 104,924 20,374	4,002 210, 30,002 4,500	20,099
MA -	\$0,001	26.736	9,487	21,030	3,965
NSÁO'	43,445	20,010	7,306	13.781	\$3,209
NTUCKY	43,793,	50,475	1,340	11,950	62,510 34,670
ing. Ing.	77,766 12,201	54,261 0,907	972,	5,345 23,505	ŽĪ,137
RYÊ ANÔ-	100,113	Sò, 406	43,707		39,471
8#ACHU8E778	69,016	55,994	11,611	115,5	20,141
CHION.	-106,395	114,439	63,356	0,405	46,133 210,749
MEBOTA Noissippi:	141,137 41,734	99,956 24,910	41,181	10,316	42,752
BROURT	107,064	47.402	21,671	17,911	34,390
DRAD!A	-37,130	.1A 525 8,955	13,997	4,816	19,354
VADA ³	11,100	21420	3,041	1,391 207	3;7 52 264
w, mampawire w Jeasey	11,133 91,591	0,168 44,854	.2,750 36,329	10,400	
M MEXICO	23,727	12,040	,536	10,351	1,046
R AGUK	561,630	329,511	140/211	• 05,600	27,192 213,695
ATHICATOLINA	106,710	76,467 13,660	66,727 3,144	29,504 2,210	0,106
RTH BARDYA IO	19,636 ⁻ 101,500	139,092	10,033:	£3,303	176,937
LANCHA	67,573	30,199	32,090.	4,476	20,740
ČOON ,,	70,571	-505,12	30,002	9,367	6,231
MMBYLYANIA	175,543	130,300 14,503	-40,762	10,273	27,543 7,329
DOG ISLAND. UTH CAROLINA	10,467	57,200	33,795	4,476 9,367 16,273 13,445	•
UTH BAKOTA	3,723	.0,680	٠. •	3,043	- 2,465
HHESSEE	90,965	\$1,000	50,661	190196	55,978 130,810
XAO,	3390310	135,920 24,738	154,823;	44,134	1,065
, MA TROMP	44,220	0,454		49,159 -348 174	5,762
MOINIA	154,257	96,934	35,064	21.440	65, 544
BHINGTON	151,349	77,560	40,376	27,105 3,700	143/434 21/177
SCOMBINI SCOMBINI	50,152 920,50	34,355 14,365	27,142	21,122	7,615
Ou luė acoustu	3,401	3,003	40,376 12,007 27,142 343	145	416
-70TAL U. 8.	5,646,644	3,010,220		037,242	1,734,055
ERICAN BAHDA	1,170	726	414	30	
DRTHERN MARIANA	170 1,302	170 564	292	506	461
JAM JERTU RICO	35, 16	10,467	1,039	10,933	0,324
TUST TERRITORY	1,479	1,224	255	•	•
- DUTLYTHO AREAD	35,440	21,179	2,000	21,469	0,705
.B. AND OUTLYING AREAS	5,402,297	3,039,407	1,794,179	040,711	1,943,640

HÔTES: TABLE INCLUDES INPUTED DATA.
TOTAL COLUMN EXCLUDES SHORT-TERM ADULTS.

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 3,21 -- ENRULLHENT (VEA), BY INSTRUCTIONAL PROGRAM AREA AND BY STATE OR OUTLYING AREAS 1978-79

											٠,
***********					CUHB.	UCCUP		******		THADE	
TÁTE UR OUTLYING AREA.	TOTAL	AGRI- CULTURE	DISTRI-	ME AL TH		HUME	IND,	UFFICE UCCUP.	TECH-		UTHE
LÀBAMÃ	221,486	:32,622	7,952	2		• •	•		,		*******
Labra "	39,020	476	2,007	7,642 1,136	54,128 5,096	**512			1,850	65,511	4,72
RIZONA	101,540	0,000	10,305	4,507	60,243	4,706			1,436	10,621	3,01
AKANSAS -	130,735	-21,395	5,212	8,502	42,129	2,200			362		22,79
	1,807,084	77,479	130,032	78,575	274,100	51,741			588 74,833	26,845 376,763	11,00
OLORADO OMMECTICUT	145,732	4,159	5,757	7,900	35,514	7-022	. 0	38,604	10,035	25,543	11,13
Crambe Campostens	209,316	1,999	4,778	4,210	87,402	1,750	24,784		1,761	32,733	5,46
ISTRICT OF COLUMBIA	65,796 23,248	2,720	1,503	2,341	3, 367	4,990			2,219	17,713	5,44
	1,152,424	129 55,184	876 71,313	333 74,365	803 111,002	8,342	0,349 45,296		•	2,400	. (
EORGIA	-,32,287	25,038	11,762						26,593	204,123	0,71
AWAII	57,726	2,765	3,713	13,888	101,800	8,440	47,209		4,215	70,955	50,70
DANO	44,211	4,974	2,3%	. 457 1,795	16,745 15,200	2,627	1,593		1,272	12,250	1,580
LLIMUIS	802,153	35,868	50,057	39,900	40,800	291 81,466	816		304	\$,309	1,31
MOIANA	223,079	27,148	7,695	18,223	48,040	3,205			23,276 13,558	249,028 74,438	10,071
ONA	320,223	36,004	14,008	72,765	100,133	12,196	48	34,562	4,289	-	•
ANSAS, ENTLICKY	111,598	10,545	5+347	7,089	30,008	3,574	3, 723		7,207	44,118 30,291	10,100
BUISIANA	292,546	22,295	12,432	0,867	78,422	3,320			605	79,131	47,461
AINE	246,576	20,854	87136	9,737	54,996	3,026	29,505		1,140	41,525	676
	43,359	" 79 0	2,054	6,469	4;749	-839	5 0		1,453	15,875	346
ARYLANO ABBACHUSETTS	-277-904 311:404	4,997.	.7,345	10,852	101,433	1.723	-0	84,649	15,140	30,586	13,259
ICHI SAN	361,636	3,561 15,083	10,570	8,210	43,036	4,070	73,107		6,775	55,094	11,512
INNESCTA	462,214	50, 147	31,807 25,937	22,24 <u>1</u> 29,951	89,090	13,439		71,46%	23,449	86,339	8,204
[88188]PP1	104,372	22,147	8,125	4,462	110,288	20,407 3,224	25,007	48,86, 14,386	10,267 2,263	100,357	1,353
SSOURI	242,543	22,339	15,400	9,408	86,715	5,382	•	,-			•
OR A SKA	99,591	7,363	5,081	0,048	31,312	1,840	0	`26 ,88 4 17 , 221	7,738	52,305	14,366
LYADA .	35,150-	1,270	1,178	6 3e	3,677	314	1.288	10,520	.1,435.	22,137 11,898	-5,309
n mampshire In jersey	48,678 820,068	2,545. 3,680	1,986 21,245	1,945	10,015	1,281	13,515	7,004	987	8,130	2,934 63 0
IN MEXICO		***		-	144,687	5,285	340,054	144,316	.19,601	121,947	2,152
	56,353 521,940	4,778	3,020	1,331	13,845	3,844	7,805	7,885	. 508	10,573	1,876
MTH CAROLINA	+31,903	31,009	37,665 41,844	41,215 67,595	479,038	12,710	386,059	357,012	40,453	150,958	0
MTH DAKOTA	46,772	7,627	2,759	1,345	91,977 14,975	23,644	15,636	76,221	20,918	152,953	110,052
i30 -	825, 487	44,421	+3,884	30,722	150,555	15,174	-3, 899 0	58,422	1,016	8,589 124,842	315,780
LAHOMA	202,973	30,040	7,538	4,055	34,657	3,699	1,815	· .	_	• * * * * * * * * * * * * * * * * * * *	
ESON	717,904	7,976	12,055	7,865	48,971	2,579	50,000	28,339 43,061	7,481 5,756	56,481	23,708
nnsvlyania	1.687	21,091	10,374	26,758	73,502	18,530	1,220	101,670	19,399	38,877 152,138	14.476
ODE ISLAND UTH CAROLINA	43,318	648	765	1,297	5,887	987	4,329	15,410	1.053	0,453	18,739 2,289:
	296,453	10,623	8,083,	•,••	55,815	3,050	7,175	49,084	9,741	45,800	74,888
UTH PAKOTA NHEBBEE	.28,801 .285,110	4,890	1,280	1,203	14,411	201	•	1,529	٥	4,667	500
	,674,022	16,752 110,234	11,290 78,778	12,785.	49,462	7,800	30,510	45,100	-15,526	84,336	11,476
AM	85,792	4,284	6,544	40,454 3,411	350,604	32,702	55,620	100,082	37,176	179,984	76,388
RHONT	29,736	1,785	800	611	12,490 7,814	2,805 512	7,180 0.	18,58 <u>2</u> 5,183	1,051 381	27,207 12:839	2,238 625
ATKIOR	450,969	35,504	41,710	7,345	80,414	. 67585		•	•		
B HINGTON	404,065	22,389	30,954	10,825	102,208	10,568	55,019 4,635	93,592 75,450	9,318	71,807	43,661
ST VIRSINIA	130,812	5,213	4,494	12,788	21,012	1,901	4,433	33,563	15,171	- 99,650	20,224
SCONSIN Control	001,272	36,821	24,363	24,458	131,291	13,928	125.027	157,308	9,000	36,343 60,764	18,526
DNING	20,045	2,091	1,134	456	3,426	35	4,524	6,663	***	1,292	334
TOTAL U.S. 10	,827,734	959,205	913,645	788,830 3	1,594,440	577;032	1,008,751	3,422,133	469,383 3	,306,258 1	.107.857
ERICAN BANDA	2,175	15	57	85	513	•	492	654		, ,	
RIHERN HARIANAS	1,671	401	ſ	o-	371	Ď	209	50	67	292 565	.0
AH FRAN Bren	5,922	49	89	0	1,800	0	1,734	. 860	272	760	15 92
ERTO RICO UST TERRITORY	191,458	4,168	14,138	2,240	59,739	780	70,274	15,862	2,478	21,783	0
OUTLYING AREAS	205,686	5,247	14,284		1,550	•	287	45 400		1,936	-281
	203,000			2,325	64,035	786	72,976	17,490	2,817	.25,538	344

NOTES: TABLE INCLUDES IMPUTED DATA.
TOTAL COLUMN INCLUDES SHORT-TERM ADULTS.



SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VICATIONAL EDUCATION DAYS SWEET

Table 3.22. Enrollment in vocational education programs (VEA), by State or outlying area: Fiscal years 1978 and 1979

			
State or outlying area	Enrollments reported in FY 1979	Enrollments reported in FY 1978	Percent change FY 1978 to FY 1979
Total	17,033,619	16,704,976	3.4
Alabama	221,486	219,807	0.8
Alaska	39,620	42, 820	~ 7•5
Arizona	161,540	244,912	-34.0
Arkansas	138,735	146,764	- 5 ` 5
California	1,869,684	2,094,199	-10.7
Colorado	145,732	146,067	- 0.2
Connecticut	209,316	161,932	29.3
Delaware	65,796	67,446	- 2.4
District of Columbia	23,248	17,778	30.8
Flòrida	1,152,424	997,309	15.6
Georg <u>ia</u>	432,287	411,467	5.1
Hawaii	57,726	63,602	- 9.2
Idaho	44,211	51,895	-14.8
Illinòis	802,153	721, 226	11.2
Indiana	223,079	196,065	13.8
Iowa.	328,223	312,805	4 . 9
Kansas	111,598	115,311	- 3.2
Kentucky	292,546	264,480	10.6
Louisiana	246,576	259, 385	- 4.9
Maine	43,359	54,079	-19.8
Maryland	277,904	349,308	-20.4
Massachusetts	311,404	241,822	28.8
Michigan	361,036	379,631	- 4.9
Minnesota	462,214	438,774	5.3
Mississippi	164,372	155,946	-11.6
Missouri	242,543	232,187	4.5
Montana	ŅĀ	23,885	NA
Nebraska	99,591	100,504	·- 0.9
Navadá	35,150	29,070	20.9
New Hampshire	48,698	52,910	- 8.0
New Jersey	820,068	927,157	-11.6
New Mexico	56,353	68,577	-17.8
New York	1,521,940	1,414,971	76
		621,236	1.7
North Carolina	631,903	021,230	-21.5

Table 3.22 Enrollment in vocational education programs (VEA), by State or outlying area: Fiscal years 1978 and 1979 -- continued

State or outlying area	Enrollments reported in FY 1979	*	Enrollments reported in FY 1978	Percent change FY 1978 to FY 1979
Ohio	825,487		803,335	2.0
0klahoma	202,973		175,083	2.8 15.9
0regon	217,904		226,878	- 4.0
Pennsylvania	441,687		434,310	1.7
Rhode Island	43,318		63,924	-32.2
South Carolina	296,453		285,898	3.7
South Dakota	28,801		30,092	- 4.3
Tennessee	285,110		295,996	- 3. 7
Texas	1,074,022		1,046,710	2.6
Utah	85,792		82,545	3.9
Vermont	29,736		25,958	14.6
Virginia	450,969		430,363	4.8
Mashington	404,066		385,385	4.8
Vest Virginia	130,812		124,613	5.C
Visconsin	601,272		342,813	75.4
Vyoming	20,045		34,229	-41.4
outlying area			•	
merican Samoa	2,175		2,093	3.9
Guam	5,922		NA	NA NA
uerto Rico	191,458		187,434	2.1
rust Territory of	4,660		4,913	- 5.1
the Pacific Islands	• •		. 9,2 20	J.1
irgin Islands	NA		5,279	NA
ommonwealth of Northern Marianas	1,671		2,181	-20.3

NA Not available.
SCURCES: United States Department of Education, National Center for Education Statistics, Vocational Education Data System; U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.



Table 3.23 Occupationally specific vocational enrollment (VEA), in grades 11 and 12 as a percent of all enrollment in grades 11 and 12, by State or outlying area: 1978-79

	Total enrollment (vocational/	Occupationally specific vocational	Vocational as a percent of total	
State or outlying area	nonvocational)	enrollment	enrollment	
Alabama	108,579	58,206	53.6	
Alaska	12,646	8,776	69.4	
Arizona	71,005	24,146	34.0	
Arkansas	64,209	26,874	41.9	
California	614,934	372,787	60.6	
Colorado	85,928	35,910	41.8	
Connecticut	90,811	35,704	39.3	
Delaware	17,688	6,833	38. 6	
District of Columbia	13,289	11,374	81.3	
Florida	213,246	122,541	57 ` ,5 ´,	
Georgia	NA	86,651	NA-	
Hawaii	24,834	18,591	74.9	
Idaho	30,414	9,558	31.4	
Illinois	314,303	216,657	68.9	
Indiana	167,880	34,573	12.1	
Iowa	94,501	26,736	28.3	
Kansas	69,535	20,818	29.9	
Kentucky	93,340	50,475	54.1	
Louisiana	108,574	54,261	· 50.0	
Maine	35,887	8,987	25.0	
Maryland	121,525	56,406	46.4	
Massachusetts	169,722	55,994	33.0	
Michigan .	288,843	114,403	39.6	
Minnesota	142,980	99,956	69.9	
Mississippi	64,899	24,910	38.4	
Missouri	143,260	67,482	47.1	
Montana	26,591	7,169 <u>1</u> /	27.0	
Nebraska	49,951	18,925	37.9	
Nevada	21,627	5,956	27.5	
New Hampshire	25,455	8,168	32.1	
New Jersey	208,393	44,854	21.5	
New Mexico	43,317	12,840	29.6	
New York	467,656	329,511	70.5	
North Carolina	158,742	70,487	44.4	
North Dakota	22,120	13,668	61.8	



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Table 3.23
Occupationally specific vocational enrollment (VEA), in grades 11 and 12 as a percent of all enrollment in grades 11 and 12, by State or outlying area: 1978-79 -- continued

State or outlying area	Total encollment (vocational/ nonvocational)	Occupationally specific vocational enrollment	Vocational as a percent of total enrollment
Ohio	326,826	139,092	42.6
Oklahoma	88,628	30,199	34.1
Oregon	72,376	31,202	43.1
Pennsylvania	326,340	138,308	42.4
Rhode Island	24,829	14,583	58.7
South Carolina	84,978	57,280	67.4
South Dakota	23,497	6,680	28.4
<u> Cennessee</u>	113,324	51,088	45.1
lèxas	386, 325	135,928	35.2
Stah Stah	46,336	24,738	53.4
Vermont	14,727	8,856	60.1
/irginia	148,024	96,934	65.5
Vashington	124,964	77,568	62.1
Vest Virginia	51,398	34,355	66.8
Visconsin	158,076	14,365	9.1
Wyoming	13,470	3,003	22.3
utlying area	`		•
merican Samoa	NA.	726	NA
łuám,	NA	584	NA
Puerto Rico	80,397	18,467	23.0
rust Territory of the Pacific Islands	NA .	1,224	NA
irgin Islands	1,690	1,1091/	** ^K 5•6
Commonwealth of Northern Marianas	462	178	38.5

NA Not available.

SOURCE: United States Department of Education, National Center for Education Statistics, Fall 1978 Local Education Agency Directory File, unpublished data; and Vocational Education Data System, pro iminary data.



No data supplied in 1978-79. Figures imputed from 1977-78 data.

Profiles of Vocational Students

The characteristics of persons attending schools offering vocational education provide insights into student needs served by different providers. In some cases, demographic profiles of students also underscore institutional differences, suggesting how institutions respond to the needs of particular groups of students. A review of student characteristics relates these differences to institutional providers and permits consideration of the issues of access and stereotyping.

A variety of student needs are served by vocational offerings. Detailed profiles of students attending two types of provider institutions are considered here, high schools and noncollegiate postsecondary schools. While comparable profiles for students at other provider institutions would be useful, such information is not available. Nonetheless, existing data permit several useful observations. The information on high school students is particularly valuable because it permits comparisons of students in vocational programs with students in other high school program areas.

The earlier chapters that examined provider institutions found comprehensive and vocational high schools and area vocational centers to be the principal providers of secondary vocational instruction. Base year data from two longitudinal studies provide information on vocational education students at comprehensive and vocational high schools. Comparisons of profiles from these two studies not only demonstrate consistent interest in vocational education, but also suggest the impact of demographic and social change on student characteristics.

High school students in vocational programs may be compared with those enrolled in either academic or general high school programs. In several ways, vocational education students differ from high school students in academic programs, although they differ little from students in general programs.

Profiles of secondary students attending all types of high schools (comprehensive or vocational) are available for the 1972 and 1980 high school graduating classes. By 1980, more than 45 percent of high school seniors in each of the three high school programs lived in communities characterized as suburban (table 4.1). Of the remaining students in each group, a slightly higher share of the students in vocational programs lived in rural areas than did students in academic programs: 31.8 percent of the total compared with 25.3 percent. The lack of large differences in the geographic locations of students in 1980 contrasts with observed differences 8 years earlier, 1972. At that time, students in vocational programs were more likely to live in rural or farming communities than students in academic programs. In 1972, over 28 percent of all vocational students lived in rural communities, compared with less than 16 percent of students in academic programs (table 4.2). And only a small proportion, 3.3 percent, of vocational students lived in suburbs.

The rising level of educational attainment of the adult population is another demographic characteristic evident from a review of the attainment levels of students' fathers. Among those from vocational programs, in 1972 there were 42.4 percent whose fathers had not completed high school (table 4.3). By 1980, only 25.3 percent reported that their fathers had not finished high school (table 4.4). Higher proportions of fathers in all program areas had completed college or obtained advanced degrees in 1980 than in 1972. In both years, fathers of vocational students had lower educational attainment in many cases than fathers of students in academic programs.

Vocational students had lower scores on series' of standardized survey tests measuring skills in several



areas in 1972 as well as in 1980. Most scores for students in academic programs averaged from one-half to one standard deviation higher than scores for those in vocational programs (tables 4.5 and 4.6).

Work experiences figured more prominently in the activities of all high school students in 1980 than they did in 1972. In 1980, more than 30 percent of the students from each high school program worked 22 hours or more per week (table 4.7). In comparison, only students in general or vocational programs worked as much per week in 1972 (table 4.8). Of particular interest are the higher proportions of students in each high school program area who reported working at least 30 hours per week. While only 6.4 percent of academic students worked that amount in 1972, by 1980, 18.9 percent of academic students worked 30 hours or more. The proportion of vocational students working 30 hours rose also, from 15.4 percent in 1972 to 25.7 percent in 1980.

The jobs held by students in 1972 were more likely to be related to studies for vocational students than for academic students (33.3 percent compared with 11.3 percent). Vocational students with jobs tended to work mostly during the week while academic students worked mostly during weekends (chart 4.1).

These findings suggest that high school vocational programs historically have served as entry paths to occupations in some areas. Reviews of activities pursued by these students following their high school years, presented in a later chapter of the report, will reinforce this observation. In those vocational program areas where high school training is not available, it would be expected that postsecondary training would be a necessary prerequisite to job entry for the occupations they serve.

Postsecondary training could be expected to serve other purposes as well. Postsecondary programs offer opportunities for persons to not only obtain training that will permit them to enter the labor force but also to change occupations, reenter the labor force after having withdrawn from it for some reason, or supplement earlier training with additional or refresher training. Profiles of students from one portion of the postsecondary universe, noncollegiate schools offering occupational programs, provide a basis for reviewing the validity of these assertions.

The data on high school students discussed earlier describe for the most part young people of the traditional age group, 14 to 19 year-olds. Some secondary school programs and especially postsecondary schools, in contrast, may serve adults of any age. The age distribution of students in noncollegiate postsecondary schools reveals that a substantial share of enrollments in these schools is over the age of 30. In public noncollegiate postsecondary schools, 24.1 percent were over 30; in private noncollegiate schools, a smaller 17.7 percent were over 30 (chart 4.2 and table 4.9). In both public and private schools, a larger proportion of women than of men were under 20. The proportion of females enrolled who were in the 35-49 age category slightly exceeded that of males. These figures support the contention that males utilize training opportunities at these schools to pursue early career objectives or to supplement past training. Females may use opportunities for different objectives, namely, to obtain labor force reentry skills.

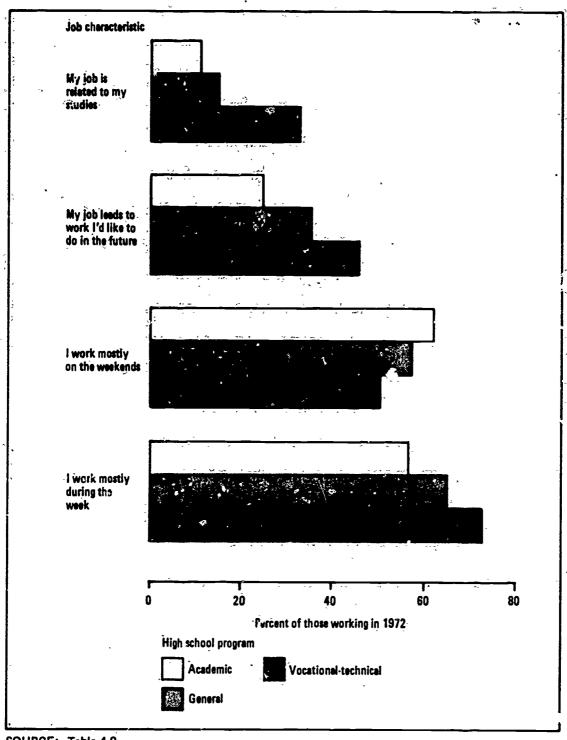
While the majority of the noncollegiate enrollments are full-time, a sizeable share are part-time. Part-time enrollments made up 35.8 percent of all public school enrollments, 28.5 percent of private school enrollments (table 4.10). These students are also engaged in other activities, such as work or homemaking. Work is important to a sireable proportion. Employment of some type is reported by almost 48 percent of the students; of the many possible occupational categories for current jobs, clerical and sales and service occupations are cited most frequently (table 4.11). Enrollment changes since 1974 show that the proportion of women noncollegiate enrollments have increased slightly, with larger increases in public (from 41.5 to 46.9 percent) than in private schools (table 4.12).

The overwhelming majority of students in noncollegiate postsecondary schools (91.7 percent) have completed high school, and in many cases have received additional education. Their educational



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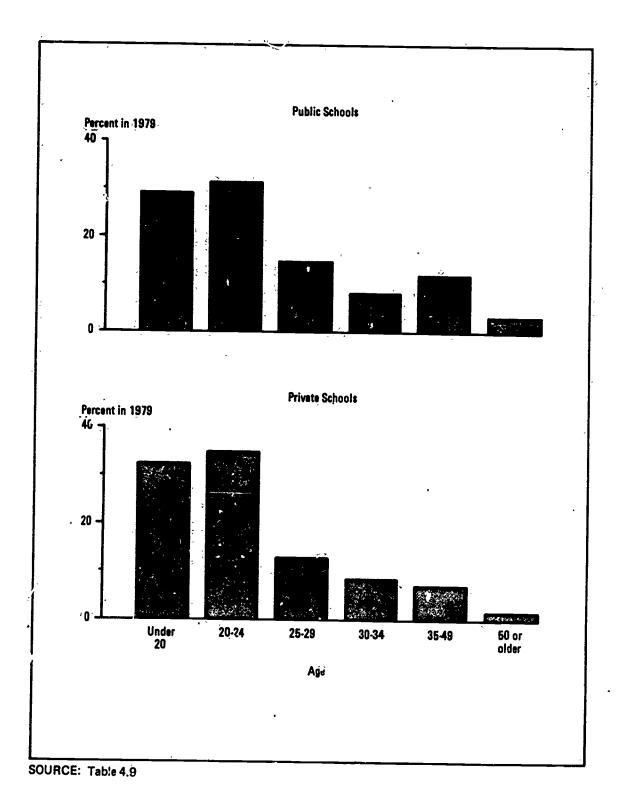
Chart 4.1 Characteristics of Jobs Held by High School Seniors



SOURCE: Table 4.8



Chart 4.2
Age of Students in Noncollegiate Postsecondary Schools





accomplishments considerably exceed, on average, those of their parents. Almost one-third of the students reported that their parents (32.6 percent of mothers and 35.6 percent of fathers) had less than a high school education (table 4.11).

The substantial share of students now enrolled in noncollegiate postsecondary programs who have received additional training or education past high school also suggests that vocational training provides opportunities for occupational reentry or occupational changes. More than one-fourth of all the students in these noncollegiate schools (27.7 percent) reported some prior college enrollment or training. More than five percent of all students had already received associate or bachelor of arts degrees. Scrutiny of these students by the area of their current program shows that the highest proportions of students with college degrees are found in the program areas of Distribution and Technical, where over six percent of the students have completed at least 4 years of college (table 4.13). The Health program area is also characterized by higher than average educational attainment of students, with 7.7 percent of students having associate of arts degrees or higher attainments.

These profiles of a portion of the postsecondary population support the view that postsecondary training serves a wider variety of training needs, and probably a more heterogeneous clientele, than does secondary training. Comparisons of students in different types of schools and of the variety of offerings will emphasize the diversity of vocational education providers and will provide a better basis for considering the future educational and labor force career paths of young people.

Student Characteristics and Institutional Types

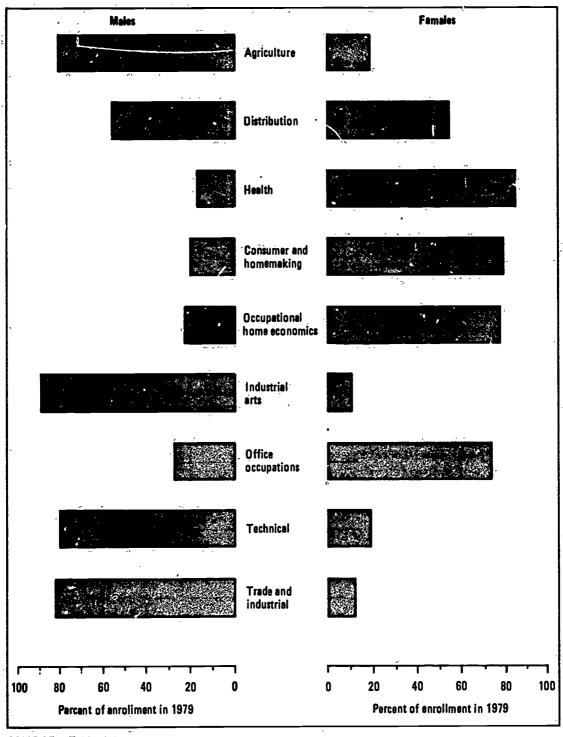
Considerable attention has been directed to assessing the opportunities vocational education provides for females and for racial and ethnic minorities. Enrollment patterns by sex and by racial/ethnic group give one measure of access not only to vocational training but, in many cases, to occupational opportunities as well.

The distribution of enrollments in program areas by sex reveal single sex concentration by program area. With the exception of the Distribution area, where total enrollments in all institutions in 1978 are almost evenly divided (46.4 percent male, 53.6 percent female), each program area displays considerable imbalance (chart 4.3 and table 4.14). The remaining program areas have between three-fourths and ninety percent of their enrollments comprised of one sex. Females are concentrated in Health, Consumer and Homemaking, Occupational Home Economics, and Office Occupations. Males are predominant in Agriculture, Industrial Arts, Technical, and Trade and Industrial areas.

The pattern of single-sex dominance by program area has lessened slightly over time. Data on enrollments in VEA programs show similar patterns to those described above, but with some changes since 1972. Of those areas that display high percentages of female enrollments, the proportion of male enrollments has increased the most in Consumer and Homemaking, from 7.9 to 20.6 percent of enrollments in the area. Females still were reported to comprise a sizeable 79.4 percent majority of enrollments in the field in 1978 (table 4.15). The area of Office Occupations displayed virtually no change, with just over a three percentage point difference (76.3 to 73.5 percent females) between 1972 and 1979. Of the areas where males have the great majority of enrollments, the percentage growth of female enrollments has been greatest in Agriculture (the smallest program area in enrollment size) and the least in Trade and Industrial (the largest program area). There has been almost a 14 percentage point increase in females in Agriculture (5.3 to 19.2 percent), but only a 3.3 percentage point increase in Trade and Industrial (11.6 to 14.9 percent). Other areas, excluding Industrial Arts (for which data are not available) displayed intermediate amounts of change.



Chart 4.3
Sex Distribution of Vocational Students, by Program Area



SOURCE: Table 4.14

The enrollments of minority students show concentration in some areas, though not the imbalance characteristic of enrollments by sex. Data on racial/ethnic distributions of students are available from both VEDS and the Office for Civil Rights (OCR) for fall 1979. While these two sources examine slightly different vocational education populations, one considering programs under the VEA and the other enrollments in institutions offering five or more programs, the results from the two sources together offer complementary and comprehensive data on student characteristics. Data from VEDS provide numbers on total enrollments by State and on occupationally specific enrollments by State and by instructional program. Data from OCR permit the examination of total enrollments by program area for the institutions included.

A summary of data from OCR shows that the predominantly female program areas of Consumer and Homemaking and Occupational Home Economics have the largest share of total enrollments from minorities, 30.2 and 31.2 percent, respectively (table 4.16 and chart 4.4). Next in order of high minority enrollments is Office Occupations, also a traditionally female area. The Trade and Industrial area has the largest minority enrollment of those areas with male concentrations, with 23.8 percent of enrollments from minorities. Agriculture has the smallest share of minority enrollments of any program area, with 16.7 percent. An examination of female and minority enrollments simultaneously shows the interrelationships in these enrollment patterns (chart 4:5).

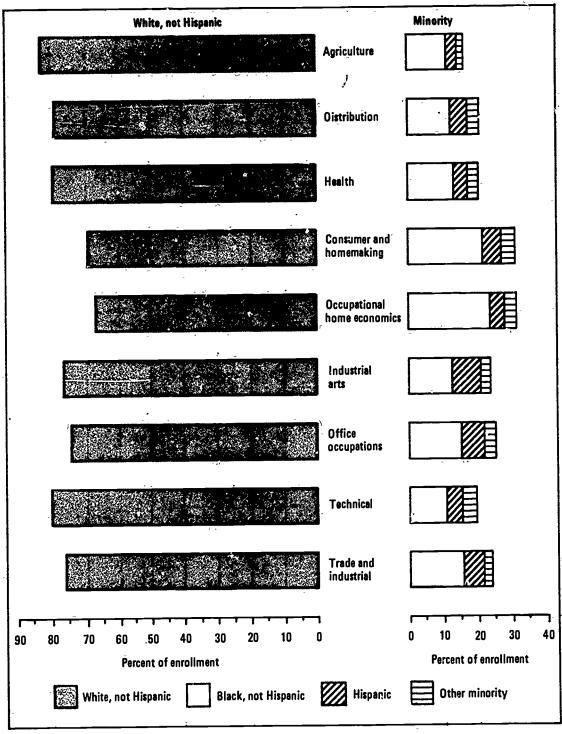
The distribution of minority enrollments in occupationally specific programs is very similar to the patterns just presented for total enrollment. Occupational Home Economics has the largest share of minority enrollment in occupationally specific programs, 34.5 percent in 1979 (table 4.17). Office Occupations remained second in order of minority enrollment, with 27.7 percent. Of the areas with traditionally high male enrollment, Trade and Industrial had the highest minority enrollment in occupationally specific programs, 23.3 percent: Agriculture remained lowest in minority enrollment, with 12.2 percent.

These numbers make it possible to consider the extent to which minorities are receiving training that will permit them to enter particular occupational areas. Before exploring further the minority enrollments in particular program areas, it is useful to first establish the proportions of minorities in the population. Available figures on the proportions of minorities in the population and of minorities enrolled in school do not use identical reporting categories and, therefore, provide only a general context for the examination of minority enrollments in vocational education. Available statistics report population by race and population by ethnicity, but not population by race and ethnicity. Hence statistics on minorities in the population do not include whites who are of Hispanic origin. Population statistics indicate that minorities comprise somewhat more than 16.1 percent of the 14- to 17-year-old population. Among 18- to 24-year-olds, 14.5 percent, and among 25- to 34year olds, 13.1 percent of all persons in the population are minorities. Addition of the whites of Hispanic origin to the minority count would obviously yield somewhat larger figures for minorities. Minorities in the population hence may be estimated at between 19 and 21 percent of the younger population group (14 to 17), and around 17 percent of the older group of young adults (25 to 34). If 20 percent is used as an average population figure, minority enrollments are disproportionately large in the three traditionally female areas cited earlier, as well as in the Trade and Industrial area. They are proportionately under-represented in the Agriculture and Technical areas.

The consistency of enrollment patterns remains not only across the two data bases but also in comparing all enrollments reported to VEDS with enrollments in occupationally specific programs. State numbers for all enrollments from VEDS show 25.7 percent minority (table 4.18), while State numbers for occupationally specific enrollments show 24.1 percent minority (table 4.19). These percentages compare with the national average from the OCR data cited earlier of 24.6 percent minority. Enrollments in specific programs permit closer inspection of the distribution of minorities (table 4.20).

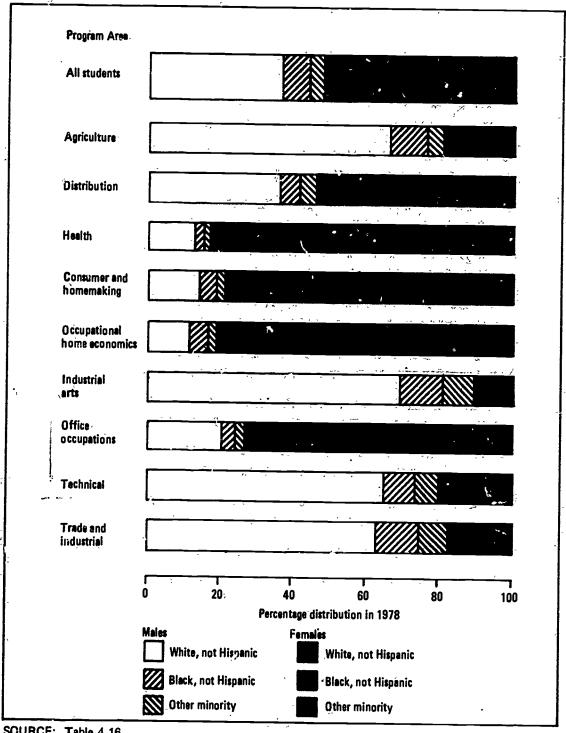


Chart 4.4
Racial/Ethnic Distribution of Vocational Students in Institutions
Offering Five or More Vocational Programs, by Program Area: 1979



SOURCE: Table 4.16

Chart 4.5 Distribution of Vocational Students in Institutions Offering Five or More Vocational Programs, by Sex and Race



SOURCE: Table 4.16



Enrollment of minorities varies not only by program areas but also by level and type of provider institution. Data from OCR provide distributions of students at four types of schools, two of them secondary and two postsecondary. Comprehensive high schools, at the secondary level, have by far the highest proportion of total enollments from minority groups, with 27.4 percent of all vocational students identified as minorities (table 4.21 and chart 4.6). Minority enrollments at this type of school do vary widely across program areas, being highest (35 percent) in Health and Technical, lowest (18 percent) in Agriculture. For eight of the nine areas, minority enrollments are more than 20 percent of the total. Area vocational centers, also secondary institutions, have a much smaller proportion of all enrollments from minority groups, 17 percent (table 4.22). For these schools, only Distribution, Consumer and Homemaking, Occupational Home Economics, and Office Occupations have at least 20 percent of enrollments comprised of minorities.

Postsecondary schools have smaller proportions of enrollments from minority groups than do comprehensive high schools. Area vocational schools enroll on average 16 percent minorities, 2-year institutions of higher education 20 percent (table 4.23 and 4.24). Occupational Home Economics has the largest minority enrollment in area vocational schools (22 percent), while Consumer and Homemaking enrollment for these schools is only four percent minority. Health has the largest minority enrollment in 2-year institutions of higher education (26 percent).

The availability of vocational education to special needs populations, especially handicapped and limited-English-proficient students, is particularly important in ensuring job opportunities for these individuals. A survey of the population has shown that an estimated 6.5 percent of all students between the ages of 14 and 25 are handicapped. Estimates of handicapped students enrolled in vocational education are available only from reports by teachers. Because handicaps as formally defined may not be observable in a classroom setting, it would be expected that a smaller proportion of students with observable handicaps would be reported as enrolled in vocational education than are enrolled in all educational programs. The highest reported incidence of handicapped students in a program area occurs in Occupational Home Economics, where handicapped students are identified as 4.0 percent of the total (table 4.25). There are only about one-third as many, 1.4 percent of program area enrollments, reported in the Office Occupations and Technical areas.

Estimates of limited-English-proficient students in vocational education suffer even more from problems of identification and reporting. Available data identify fewer than one percent of vocational students as having language barriers (table 4.26). This figure is so much lower than independent estimates of limited-English-proficiency students that its accuracy is suspect. When the available figures by program area are compared, Trade and Industrial shows the highest concentration of these special needs students, with Office Occupations, Occupational Home Economics, and Technical also as relatively high enrollment areas (table 4.26). The reported relative sizes do reinforce earlier observations showing that minority enrollments are concentrated in certain areas. Of particular interest is the variation in enrollments among school types within program areas.

Numbers of students who were handicapped or limited-English-speaking and who benefited from the provisions of the VEA for serving students with special needs are shown in table 4.27. Students in other special groups are also shown.



Chart 4.6
Distribution of Vocational Students in Institutions Offering
Five or More Vocational Programs, by Type of School

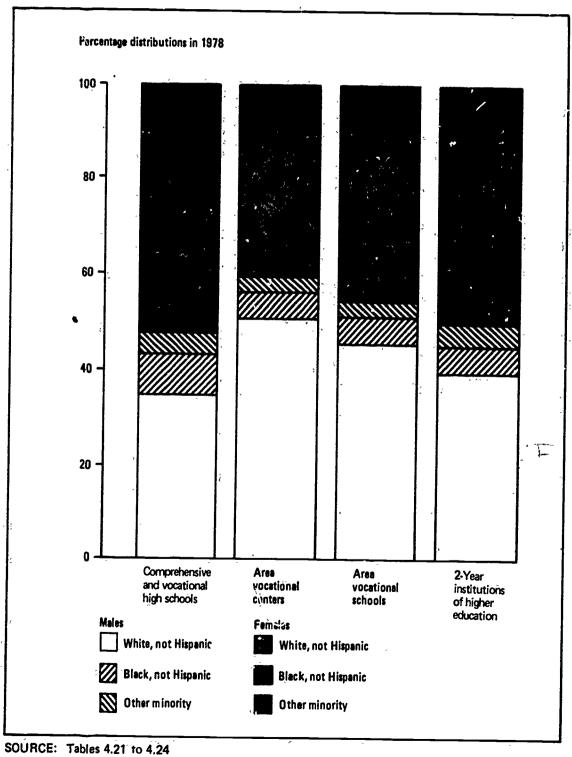




Table 4.1

Type of community of high school seniors, by high school program: 1980

,		igh school prop	gram .
Type of community	Academic	General	Vocational
Total	100.0	100.0	100.0
Rura1	25.3	35,4	31.8
Urban	19.6	18.4	22.7
Suburban	55.1	46.2	45.5

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond, special tabulations.





Table 4.2

Type of community of high school seniors, by high school program: 1972

, han	High school program			
ype of community	Academic	General	Vocational	
Total	100.0	100.0	100.0	
n a rural or farming community n a small city or town of fewer than 50,000 people that is not a suburb	2 15.8	26.4	28.7	
of a larger place n a medium-sized city (50,000 -	27.3	25.0	.26.6	
100,000 people)	11.5	12.6	12.0	
n a suburb of a medium-sized city n a large city (100,000 - 500,000	8.1	7.8	8.2	
people)	8.9	9.7	9.1	
n a suburb of a large city n a very large city (over 500,000	11.4	8.1	7.3	
people)	6.3	5.1	4.8	
n a suburb of a very large city	10.7	5.2	3.3	

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975.



Table 4.3
Father's educational level of high school seniors, by high school program: 1972

	High school program			
Èducational level	Academic	General `	Vocational	
Total	100.0	100.0	100.0	
Doesn't apply	1.4	4.2	5.0	
Did not complete high (secondary)				
school	19.4	34.5	42.4	
Finished high school or equivalent	28.9	30.7	33.9	
Adult education program	1.1	1.7	1.2	
Business or trade school	6 . 5	5.2	3.9	
Some college	13.7	10.6	7.2	
Finished college (four years) Attended graduate or professional school (for example, law or medical school), but did not attain a graduate or professional	15.1	7.9	3.9	
degree Obtained a graduate or professional degree (for example, M.A., Ph.D.,	3.9	2.0	1.1	
or M.D.)	10.1	3.2	1.4	

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975,



Table 4.4

Father's educational level of high school seniors, by high school program: 1980

war and a second	High school program			
Educational level of father	Academic	General	Vocational	
Total	100.0	100.0	100.0	
Do not live with father	6.8	8.2	8.9	
Less than high school	11.1	20.5	25.3-	
Finished high school only	21.9	26.4	27.5	
Vocational - less than 2 yrs.	2.9	3.2	3.5	
Vocational - at least 2 yrs.	5.0	4.8	5.7	
College program - less than 2 yrs.	7.0	5.0	3.8	
College - greater than 2 yrs.	5,9	4.9	3.5	
Finished college	£6.7°	8.1	4.6	
laster's degree	10.0	4.1	2.4	
PhD.	7.2	2.4	1.0	
Don [†] t know	5.9	.12.5	33 . 0	

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond, special tabulations.



Table 4.5
Test battery formula scores of high school seniors, by high school program: 1972

	High school program			
	Academic	General	Vocational	
WEIGHT	ED ESTIMATES O	F MEANS		
Voçabulary	8.41	4.73	4.51	
Picture-number	19.51	14.94	15.10	
Reading	12.24	7.78	7.33	
Letter groups	18.85	14.02	14.10	
Mathematics	17.26	9.46	8.68	
Mosaic comparisons	49.76	42.35	42.25	
WEIGHTED ESTI	MATES OF STANDA	ARD DEVIATION	nș	
Vocabulary	3.81	3.71	3.46	
Picture-number	7.45	7.95	8.04	
Réading	4.22	4.77	4,54	
Letter groups	4.31	6.608	5.98	
Mathématics	5.84	6.54	6.00	
Mosaic comparisons	14.44	17.12	15.89	
STANDARD ER	RORS OF ESTIMA	res of means		
Vocabulary	.053	:058	.061	
Picture-number	.104	.125	.141	
Reading	۰059	。075	.079	
Letter groups	.060	.096	.105	
Mathematics	.081	.103	.105	
Mosaic comparisons	.275	.355	.356	

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975.

Table 4.6
Test battery formula scores of high school seniors, by high school program: 1980

Standardized			
test scores	Academic	General	Vocational
,,	WEIGHTED ESTIMAT	ES OF MEANS	
Vocabulary	54.9	47.8	46.1
Reading	54.8	47.8	46.1
Mathematics	55.6 .	47.3	45.5
Visual	52.5°	48.8	47.9
WEIGHT	ED ESTIMATES OF S	TANDARD DEVIA	TIONS
Vocabulary	9.8	9.0	8.5
Reading	9.2	9.4	9.1
Mathematics	8.7	9.2	8.8
Visual	10.2	9.6	9.5
STANI	ARD ERRORS OF ES	TIMATES OF ME	ANS
Vocabulary.	0.0	-0.0	0.0
Reading	0.0	0.0	. 0.0
Mathematics.	0.0	0.0	0.0
Visual	0.0	0.0	0.0

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond, special tabulations.



Table 4.7
Work experience of high school seniors, by high school program: 1980

Hours worked per week	Academic	General	Vocational
Total	100.0	100,0	100.0
None	4.6	4.5	4.7
1 to 4 hours	11.4	9.0	-8 . 6
5 to 14 hours	21.5	18.4	16.0
15 to 21 hours	27.7	26.3	27.2
22 to 29 hours	15.8	17.9	18.0
30 to 34 hours	6.9	8.8	9.9
35+ hours	12.0	15.1	15.8

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond, special tabulations.



Table 4.8
Work experience of high school seniors, by high school program: 1972

	High school program			
Work characteristic	Academic	General	Vocational	
HOURS WORKED PER WEEK				
	Percent	age distrib	utions	
Total	100.0	100.0	100.0	
None	26.0	24.2	20.5	
Less than 6 hours	13.6	11.8	8.8	
5 to 10 hours	13.3	12.1	10.8	
ll to 15 höurs	11.0	8.4	9.5.	
l6 to 20-hours	14.8	12.1	13.8	
21 to 25 hours	9.6	. 10.1	11.9	
26 to 30 hours	5.4	7.6	9.4	
fore than 30 hours	6.4	13.7	15.4	
RELATION OF JOB TO STUDIES			•	
		ercentage o		
y job is related to my studies y job leads to work I'd like	11.3	16.1	33.3	
to do in the future	25.5	36.6	47.1	
	62.2	57.8	49.9	
work mostly on the weekends	02.4	3/.0	47.7	

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975.



Table 4.9 Age distribution of students in noncollegiate postsecondary schools, by control and sex: 1979

	Public Public			Private		
Age [.]	Total	·Men	Women	Total	Men	Women
Total	100.00	100.00	100.00	100.00	100.00	100.00
Under 20	28.59	26.77	30.96	32.76	27.58	35.50
20-24	31.30	30.57	32.24.	35.00	37.19	33.85
25-29	14.98	17.05	12,29	13.84	17.22	12.06
30-34	8.86	9.56	7.95	8.26	8.82	7.96
35-49	11.92	11.46	12.50	7.93	6.99	8.42
50 or older	3.34	3.79	2.75	1.46	1.39	1.50
Not reported	1.02	•79	1.31	•75	•82	.71

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.



Table 4.10
Distribution of enrollments in noncollegiate postsecondary schools, by control and by attendance status: 1978

ttendance	Total	Public	Private
	Percent	age distrib	utions
Total	100.00	100.00	100.00
ll time	69.3	64.2	71.5
art time	30.7	35.8	28.5

SOURCE: United States Department of Education, National Center for Education Statistics, Enrollment and Programs in Noncollegiate
Postsecondary Schools, 1978, 1979.



Table 4.11 Educational level and employment status of parents and students in non-collegiate postsecondary schools with occupational programs1/: 1979

Education level and employment status	Student	Mother	Father
′′	Percentag	ge distri	bution
Educational level:			
Total	100.0	100.0	100.0
Less than high school	8.2	32.6	35.6
Completed high school	64.0	38.4	28.8
Some college or other training	22.0	14.1	13.8
Completed 2 years of college (Associate degree)	2.7	3.0	2.4
Completed 4 years of college or more	3.0	5.5	10.3
Not reported	•2	6.3	9.0
Employment status:			
Total	100.0	100.0	100.0
Professional, technical, and managerial	7.4	7.4	18.2
Health	NA	8.4	1.5
Clerical and sales	14.9	22.2	8.1
Service	9.2	14.0	9.7
Agriculture	1.2	•5	5.9
Processing	1.8	5.5	6.2
Machine trades	5.0	•6	9.1
Bench work	1.0	2.0	1.5
Structural work	3.9	.4	14.4
Miscellaneous	3.4	1.4	10,2
Never worked	NA	27.3	•5
Not currently working	52 . 1 <u>2</u> /	NA	NA
Not reported	.1 _	10.2	14.7

NA: Not available,

SOURCE: United States Department of Education, National Center for Education Statistics, The Condition of Education, 1980 Edition.



^{1/} Only programs whose length was greater than 3 months were included in this survey. Correspondence schools and Opportunities Industrialization Center Schools were excluded from the survey.

^{2/} Of the 52.1 percent of students who were not currently working, 24.0 percent reported that they were looking for a job.

Table 4.12
Distribution of enrollments in noncollegiate postsecondary schools, by control and by sex: 1974, 1976, 1978

·			_
Control	Total	Men	
Total, 1974	100.0	51.0	49.0
Public	100.0	58.5	41.5
Private	100.0	47.i	52.9
Total, 1976	100.0	48.8	51.2
Public	100.0	54.7	45.3
Private	100.0	45.8	54.2
Total, 1978	100.0	48.0	52.0
Public	10070	53.1	46.9
Private	100.0	45.8	. 54.2

SOURCE: United States Department of Education, National Center for Education Statistics, Enrollments and Programs in Noncollegiate Postsecondary Schools, 1978, 1979.

Table 4.13
Educational attainment of students in noncollegiate postsecondary schools with occupational programs, by area of program: 1978

		· · · · · · · · · · · · · · · · · · ·		Area of	current program	n.		-
Students educational attainment	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupations	Technical	Trade and industrial
•				Percenta	ge distribution	3		
Total	100.00	100.00	100,00	100.00	100.00	100.00	100.00	100.00
8th grade or less	.80	•76	1.15	.40	9.20	•31		100.00
Some high school	7.36	6.95	3.96	.71	14.99		•52	1.29
Completed high				• 7 1	14.77	5.04	4.93	12.54
school/reg. grad	55.01	53.78	56.47	52.73	E/. 01	F7 00		
Completed high		301.0	20147	32.73	54.91	57.80	56.94	53.50
school/G.E.D. test	8.94	6.85	9.01	6.64	10 51	0.00		
Completed voc. school	5.36	6.55	6.06		10.51	9.89	7.34	9.60
Completed less than four	2430	0.55	0.00	5.37	1.55	5.30	4.99	5.47
years college	16.62	23.06	14.47	06.45				
Completed two years	10002	23.00	14.47	26.45	5.29	16.72	15.48	12.79
college assoc					Ÿ			
degree	2.66	06	0.40					
Completed 4 years or	2.00	.96	2.49	3.83	.56	2.05	3.37	2.48
more college	3.01	•						
COTTERE	2.01	•91	6.01	3.82	1.74	2.67	6.01	2.10
iot reported	20	00			•	•		
or reported	. 22	.20	.39	.06	1.24	•22 ⁻	.43	.23

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations,



TABLE 4.14 - ENROLLHENT (VEA), BY SEX AND BY INSTRUCTIONAL PROGRAM:

PROGRAM	/OTAL ENROLLMENT	FEHALES	FEMALES AS A PERCENT OF TOTAL	
AGRICULTURE	763,697	146,303	19,16	
DISTRIBUTION	644,177	345,066	53.57	
HEALTH- OCCUPATIONS	436,249	367,758	84.30	
PREP. FOR OCCUP. UF HOMEHAKING	2,838,420	2,254,063	79,41	
CCUPATIONAL HOME ECONOMICS	445,979	347,287	77.87	
OFFICE UCCUPATIONS	2,887,981	2,121,342	73,45	
FECHNICAL	374,420	72,684	19,41	
TRADE & INDUSTRIAL OCCUPATIONS	2,253,715	373,864	17.48	
INDUSTRIAL ARTS	1,665,311	248,851	14.94	
THER NEC	918,594	422,351	45.98	
TOTAL	13,2 3,549	6,719,569	50.80	

NOTES: TABLE INCLUDED IMPUTED DATA.
TOTAL COLUMN EXCLUDES SHORT-TERM ADULTS.

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



Table 4.15

Percent of total enrollments in vocational education programs (VEA), by program area and sex: Fiscal years 1972, 1977, and 1979

Program area		972	19	977	19	979
· · · · · · · · · · · · · · · · · · ·	Male	Female	Male	Female	Male	Female
Agriculture.	94.7	5.3	85.1	14.9	80.8	19.2
Distribution	54.8	45.2	50.3	49.7	46.4	53.6
Health -	15.4	84.6	21.8	78.2	15.7	84.3
Consumer and homemaking	7.9	92.1	18.4	81.6	20.6	79.4
Occupational home economics	14.0	86.0	18.4	81.6	22.2	77.8
Office occupations	23.7	· 76 . 3	24.9	75.1	26.5	73.5
Technical	90.3	9.7	83.0	57.0	82.5	17.5
Trade and Industrial	88.4	11.6	85.6	14.4	85.1	14.9

SOURCE: United States Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Status of Vocational Education in 1978, 1979, and National Center for Education Statistics, Vocational Education Data System.





Table 4.16
Distribution of vocational students in institutions with five or more vocational programs, by sex and racial group by program area: Fall 1979

							. R	acial/eth	nic group	_			
		Se	ex:		an Ind./		n Am./	Blac	k, not panic	His	panic		e, not spanic
Program area	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	2 - 3 - 3	- • • • •		, ,	*	Percen	tage distr	ibution			÷		
Total	100.0	48.9	51.1	0.6	0.5	0.8	0.9	7.1	8.7	2.9	3.1	37.6	37.8
Agriculture	100.0	80.6	19.4	1.5	0.3	0.5	0.2	9.7	1.8	2.0	0.7	66.9	16.4
Distribution	100.0	46.0	`54 . 0.	0.4	-0.4	1.0	1.0	5.5	7.0	2.3	2.9	36.7	42.7
Health	100.0	16.1	.83.9	0.2	0.8	0.3	1.1	2.1	11.1 -	1.0	3.5	12.5	67.4
Consumer and homemaking	-100.0	21.5	78.5	0.3	0.9	-0.4	1.0	5.3	16.8	1.2	4.3	14.3	55.5
Occupational home-economics	100.0	18.3	81.7	0:3	1.0	0.2	0.7	4.8	17.8	1.3	5.1	11.8	57.0
Industrial arts	100.0	89.4	10.6	1.0	0.1	1.0	Ó.1	11.5	1.7	6.6	0.9	69.3	7. 8
Office Occupations	100.0	.27.0	.73.0	0.3	0.7	0.7	1.5	4.1	11.6	1.6	5.0	20.3	54.2
Technical	100.0	80.2	19.8	0.7	0.2	2,2	0.4	8.2	3.2	3.9	1.0	65.2	14.9
Trade and industrial	100.0	82.5	17,-5	1.0	0.2	1.3	0.3	11.8	2.7	5.4	1.2	63.2	13.0

SOUNCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



Table-4.17

Distribution of vocational students in occupationally specific programs (VEA), by sex and racial/ethnic group, and by program area: 1978-79

Program area			n Indian/ Native Female		merican/ Islander Female	His Male	spanic Female	not H	ack, ispanic Female		ite, ispanic Female
Total	100.0	0.5	0.4	1.1	1.1	3.3	3.5	'6.6	7.5	40.0	35.9
Agriculture	100.0	0.8	. 0.2.	0.7	0.2	2.8	0.7.	5.6	1.1	69.2	18.6
Distribution	100.0	0.3	0.4	1.1	1.0	2.7	3.2	5.5	6.8	36.7	42.4
Health	100.0	0.2	0.7	0.4	1.3	1.1	4 . 3	2.2	12.2	10.7	67.0
Home Economics	100.0	·0.1	0 _• .7°.	. 0.4	1.2	1.3.	5.7	5.3	19.9	12.2	53.2
Office Occupations	100.0	0.2	0.6	0.9	1.9	1.8	6.2	4.1	12.9	18.3	54.0
[echnical	100.0	0.8	0.2	2.3.	0.6	4.9	1.1		2.8		-
Trade & Industrial	100.0	0.8	0.2	1.6	0.4	5.7	1.3	10.8	2.6	65.3 63.4	13.9 13.3

NOTE: Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System.

TABLE 4.10 -- EMBULLMENT (VEA), BY MACIAL/ETHNIC DEBIGNATION AND BEX, AND BY STATE ON OUTLYING AREA: 1978-74

			N, INDIAN/		AMERICAN/		ACK,				176,
TE OR OUTLYING AREA	. 707AL		N NATIVE		ISLAMDER		ESPANIC		PANIC		ISPANI
ide en aniratus untu		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	HALE	FEMALE	HALE	7EH.
MANA				-		•					,
1000 ×	206,173	. 71	65	121		35,657	36,10A	276	153	70,300	•3,
Bra ' Boma Amga B	27,964 1154148	5,668 5,320	5,091 5,4 9 5	202 202	272 433	. 520	705	204	230	12,034	11.
Amena	100,402	152	37,773	702	322	13,152	2,430 17,472	*,0*1 153	12,432	26,953	51, 35,
170RHIA	1,676,506	10,251	*, *21	43; 645	30,914	70,219	92,314	120,240	139,072	30,651 576,415	550,
00400	115,262	590	- 682	494	407						
MEC716U7	200,379	263	216	636 336	345	2,395	3,619 15,002	4,161	0,383 5,049	41,624 71,076	50, 71,
	\$4,047.	143	179	130	152	5,210	7,223	. 252	302	21,565	i,
Jules or cormery	22,436	•	•		•	11,070	10,402	•	14	62	-
TRICT OF COLUMNIA	095,547	1,222	1,253	3,670	3,340	09,767	107,944	31,384	35,221	295,974	205,
MOZA	361,699	743	255-	Š 44	510	57,175	67,400	474	423-	124,404	129
411	49/401	40	66	10,500	21,002	176	245	702	037	4,741	5
iio Iuoza	33,500	170	505	120	127	50	39	345.	533	14,223	17,
14019 1484	731,017	557	542	2,459	2,421	54,579	60,740	11,353	10,514	297,970	240
•	153,074	140	114	234	173	6,590	6,751	1,125	1,090	67,969	67,
A AAS	123,382	54	101	150	222	017	1,420-	207	301	53,371	66,
eve Linera	07,202	472	955	2,702	3,952	400	417	872	-1,092	33,544	43
TUSKY	206,991	.43	.50	110	116	0,563	11,679	- 62	38	76,757	95
IDIANA NE	200,975 22,162	222 77	321	265	410	33,900	46,297	737	503	60,423	45
-			-	16	•	•	10	12	17	7,725	12,
VLAND SACHUGE770	229,766	702	1,095	1,443	2,529	22,720.	40,974	500	1,171	50,963	99
HIGAN	-201,243 310,540	76 1,271	. 120	945	759	5,104	3,959	2,400	2,449	130,395	127
HEAD? O	204,534	1,105	1,240 654	562 - 587	451	13,646	19,007 -2,151	1,719	2,491 861	117,017	151
6100 iPP1	121,620	35	49	70	105	27,045	27,147	26	124	36,103	103
enuè e	203,490	456	589		209						
MAKA	71,072	340	327	. 220	222	11,331	20,740	373 403	, 490	73,201	*5
ODURS RASKA ADA	31.222	372	536	231	106	1,356	1.255	715	637 577	31,505 14,676	34, 11,
HOUSE BUILDING	40,112	36	45	733	35	98	******	. '31	25	27,012	20
JEROEY	679,050	312	277	3,470	3,534	42,596	52,465	25,443	19,975	201,500	227
MEXICO	53,437	1,055	1,703	•1	* 0 1	539	704	11,406	12,509	12,420	12,
VORK	1,224,019	2,740	2,107	4,534	5,777	-106,730	143,365	29, 332	45,640	402,423	403
<u>T</u> M <u>Caro</u> lina	379,177	2,710	2,550	305	211	57,144	* 60, 316	590	410	140,309	100
TH DAKO7A	35,740	• 35	544		31-	10	20	44	30	17,974	.10,
•	612,514	. 365	440	713	490	57,706	43,972	4,519	4, 135	555,055	250,
AHOMA	139,350	4,700	5/643	676	489	4,770	5,063	770	704	60,647	54
DON"	107,133	504	. 474	- 741	549	766	720	057	640	+3,543	88
ngylvanza De zglamo	323,592	307	310	437	455	17,557	/23,010	1,559	1,440	123,000	154
in Carolina	35,909 214,161	1,012	16 375	51	32 249	726	1,090	47	77	14,367	19
		1,412	3/3	269	244	44,729	54,570	242	146	54,400	Ş\$.
7H BAKO7Å-	25,750	407	390	16	34	16	40	27	72.	10,254	14
MESOCE AD	222,414	405	330	264	162	26,171	27,477	213	110	93,554	73
., N	777,451 03,583	1,379	1,767	2,013	2,696	61,525 154	76,753	75,362	01,015	235,541	237
10117	17,667	•34	52	***	43/	10	127 13	1,075	104	43,134 7,154	35,
BINIA	330,494	201	310	4.445		-			_		
uinia Hington	. 230,052	2,015	2,700	1,119	1,105	30,063	45,002 2,006	771 3,392	566	126,426	110,
7 VIRGINIA	01,107	341	207	.,,,,,	112	2,226	2,340	3,372	4,460	35.265	40
CONSTN	467,523	õĩż	1,013	341	350	3, 974	5,010	1,907	1.300	239,615	214
MIKS '	19,022	72	• • • • • • • • • • • • • • • • • • • •	i	5	20	42	-237	444	9,647	Ō,
107AL Ū.O.	13,046,267	53, 197	52,720	95,003	**,***	403,623	1,175,782	360,919	400,400	1,715,047	4,707,
RECAM BANDA	2,175	•	•	1,021	1,151	•	o	0	•	0	
THERM MARIAMAD	1 + 671	•	•	073	796		•	•	•	0	
N -	5,461	•	0	2,005	1,975	13	11	0		335	
RTO RICO 67 TEPRITURY	100,313		•	9, 444	,0	•	•	72,546	75,767	ų v	
	4,660	•	•	2,716	1,943	•	•	0	•	×	
DUTLYSHS AREAS	102,200	•	•	7,495	5,005	13	11	92,546	75.767	335	

NOTES: TABLE ENCLUDES EMPUTED DATA.
TOTAL CULUMN EXCLUDES SMUNT-TERM ADULTS.

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 4,19 -- ENMULLMENT IN OCCUPATIONALLY SPECIFIC PRUGRAMS (VEA), BY MACIAL/ETHNIC DESIGNATION AND SEX, AND STATE OR DUTLYING AREA: 1978-79

TATE OR OUTLYING AREA	TOTAL	american Alabaan Male	MATIVE PEHALE	PACITIC	american/ Iblander Pemale	NUT H	ACR, IISPANIC FEMALE		PANIC		ite, ibpani
					 		.eeeeeeeeee Aguuff	MATE	FEHALE	3447 ***********************************	7 EM/
LABAMA	101,010	46	i •	4 9a	41	17,446	13,932	/254	120	40,525	27,
LASKA	21,411	1,041.	1,027	100	223	339	449	149	172	8,897	7,9
7130MA	24,146	.2,631	1,367	205	119	201	420	1,000	-2,642	0,350	
rkangag Alipornia	35,676 -1,876,944	7,147	e,540	31,074	20:157	4,269	3,676	78,274	40 00,553	17,242	350
ILÉRABO	01,425	466	347	561	470	1,915					
DAMECTICUT LLAMARE	52,207	39	37	76	105	3,000	` 2,400 4,053	4,504	4,623	33,470 20,461	32,1
	17,760	30	Ži	iř	17	1,422	2,205	41	• • • • • • • • • • • • • • • • • • • •	7,677	ee,
IBTRICT OF COLUMBIA	12,942 246,572	267	306	1,091	703	4,534	0,395	i		. 7	
LÓNGIÀ		-		7		20,090.	22,949	7,076	₽è¢ -	99,210	. 66,7
MAII	113,731 -31,991	50 505	55 66	165	126	16,319	16,767	107.	134	40,075	30,
MANG	14,026	• • • • • • • • • • • • • • • • • • • •	112	68	12,690	121:	15	624 147	457- 149	2,720	2.
LIMOIS	352,263	349	364	1,304	1 , 436	-25,775	33,509	52400	5,041	140,707	137,
MÍTWA	47,247	100	56	166	70	3,050	2,199	742	253	44,295	10,
MA. Mgagʻ	\$0,001	34	35	. 105	54	297	234	149	103	32,205	24,
MTUCKY '	43,965	365	545	1,480	1,546	376	254	503	450	-20.512	17,
WIEIANA	63,793 77,766	73		37 261	29	2,661	5,662	. 34	. 13	31,041	27,
INE	12,201		50	15	176	13,711	14,711	300 12	227	24,657 8,241	. 23, 3,
MYLANÓ	100,113	270	. 500	533	562	10,100	15,400	3èè	375	32,446	39)
BOACHUGE TTB	67,016	- 65	53	107	73	1/070	1,070:	765	443	42,705	22,
CHICAN	186,395	. 440	245	335	311	7,770	. 1,324	1,115	1,464	05,403	79,
nmegota 801801PP1	141-137.	1,109	-520,	251	565	1,203.	.440	404	486	10,363,	. 57.
;	41,734	14	17"	31	33	10,090	4,427	53	16	16,313	•
900vr] - 9raska	-107,064 37,138	379 174	363 96	-174	100	5,433	7,326	300	300	56,815	35.
VADA:	11,100	- 122	101	ii		1,032	786 860 -	289 287	,243 219	19,539	14,
W: NAMPOHIRE	11,133	16	.59	•	10	25	14		***	5,907	3,
M JERBEY	91,591	102	76	433	369	5,916	5,443,	1 , 1,951	1,501	42,434	33,
MEXICO	23,727	819	566	.44.	37	224	227-	5,117	5,023	6,487	Sel
M YORK RTH CAROLINA	561,630 166,718	929	1,246	3,000	4,111	34,302	64,663	15,927	30,116	170,567	. 220;(
RTH SAKOTA	17,030	1+212+ 430	293	. 202	139	22,176	17,055	505	305 15	70,261	-51
10	101,500	155	155	119	***	13,004	14,721	151	èis.	10,746	710
LAHONA.	67,573	2,101	1,999	395	264	2,964	3, 151	426	295	32,435	23,
HOOM ,	70,571	464	415	563	475	567	549	560	520	39,743	34.
DOE SOLAND	195,543	197	176	336	265	9,791	12,386	792	741	42,147	88.
UTH CAROLINA	10,007 105,220	402	13 324	21 234	132	324 22,617	551. 10,300	42 195-	26 72	\$101	110
ÚTH ĐẠỂGTA	•								_	35,759	26,
MMESSEE	19,723 18,965	269 187	149 129	14	3			.13	11	4.157	3.
KA8	337,310	629	551	167	105 1,637	11,059° 22,742	11,005 25,676	147 32,532	27,466	43, 156	32,
AM .	44,220	. 376	250	524	297	110	74	643	445.	123,447 24,763	100,0
RHONT	7,030		- 0	4	•	• •				4,796	4,
REINIA	154,257	96	109	469	441	17,469	10,133	403	.272	43,321	53,
emineton Et virbinia	151,349	1,240	1,506	1,273	1,100	1,533	1.316	2,559	2,532	71,000	86,1
SCOMBIN BI ATMATUTU	30,132	214 100	1 55 147	72 124	95 54	1,539	1,537	. 19-	. 53	23,016	23.
DM I MB	3,401	'';	176	16.1	"	7,7	1,146	227 13	154	36,398	23,
TOTAL U.O.	5,646,849	27,045	23,136	61,290	57,450	304,057	431,357	169,847	101,022	2,279,253	
ERICAN SANDA	1,170	. •	4	521	444	•	•	•	•	•	
RTHERN MARIANAS An	176	•	•	103.	73	•	•	•	i		
AN ERTO RICO-,	1,302	•	•	010	414	•	1	4		45	
VAT TERRITORY	1,479	•	i	1,107	312.	i	•	10,763	14,476		
DUTLYING AREAS	35,440	•	• •	2,649	1,445	•	1	10,763	14,476	45	
DA & OUTLYING AREAS	5,482,297	27,045	23,136	63/699	54,983	360,057		105,770			

NOTEO'S TABLE INCLUDES IMPUTED DATA. TOTAL COLUMN EXCLUDES SHURT-TERM ADULTO,

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL COUCATION DATA SYSTEM.



TABLE 4.28 - EMPOLLMENT IN DECUPATIONALLY SPECIFIC PROGRAMS (VEA), SY MAUJAL/ETHMIC DESIGNATION AND SEX, AMD SY PROGRAMS 1978-79

PROSEAN		AMERICAN ALASKAN	INDIAN/	AOIAN Pacifi	AMERICAN/ S ISLANDER	NOT	ĽÀCK, HI SP ANIC	H1:	PANIC	HH1 NUT H1	TE, BPANIC
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TOTAL	HALE	PEHALE	MALE	PEMALE	HALE	FEMALE	MALE	-FEHALE	MALE	† EMÀLE
ADRICULTURAL PRODUCTION	170,607	1,327		1,193		_		5.429	947		
ABRICULTURAL SUPPLIES/SERVICES.	17,644		310 37	1,143		7,688	1,369	3,464	117	126,746	25,439 3,978
AGRICULTURAL MECHANICS	70,671	635	136	224		4,550	-497	1,015	299	\$4,574-	6,039
ABRICULTURAL PRODUCTS HBRTICULTURE	5,317 74,438	37 549	7 246	***		437	1,925	129	39 939	3,492	1,022
MEHENASLE NATURAL REDUKCES							•	-•	-	- · · <del>-</del>	25,994
PORCATRY	15,997	107 147	95 51	77 62	41 25	566 855	146 126-	391 231	136 . 43	10,744	3,414 1,751
OTHER ADPICULTURE	24,224	- 201	75	104	31	762	107	461	126	13,491	4,426
ADVERTIBING BERVICES: APPAREL & ACCESSORIES	9,344 25,684		26 76	76 78		667	572	100 277	109	3,573	3,954
AVTONOTIVE					107	1,406	3,153		731	4,337	15,762
FINANCE & CREDIT	6,591 25,390	13 79	15 143	17 207	269	537	253 1,151	135 502	. 36 957	4,277	1,302
PLOSTATOV	2,095		ïï	- 24		123	104	67	.14	7,713	1,571
PODO DISTRIBUTION PODO DERVICES	25, 322 29, 257	67 56	140 76	133	131	1,714	1,501	745 348	633	-11,275	0.975.
2.						5,053			402	0,953	13,944
GENERAL MERCHANDISE MARSHARE, SUILDING MATERIALS, ETC.,	195,507 3,434	539 5	(\$46 67	2,240	2,070	11,244	14,023	4,744	6,510 35 -	2,173	015. 015.
HONE FURMISHINGS	2,304	•	5	•	11	105	iis	19	37	633	1,169
MOTEL'S LOSSING. IMBUSTRIAL MARKETING	11,752	34.	- 20	277	<b>296,</b> *	111	667	321	247	5,277	3,716
	17,602	41	<u>`</u> 34	1 35	110	1,329	1,106	1,039		7,725	5,351
IMBURANCE PERBONAL-BERVIĈEO	6,472 5,435	24	-25 26	100	05 15	`471 .325	565 · 534	195	237 111	2,370 1,698	2,392 *
MEAL ESTATE	99,173		467	1,027	1,461	3,767	3,415	3,575	47200	30,002	39,774
RECREATION & TOURISM TRANSPORTATION	14,154	05	70	~ 243	511	700	714	405	572	5,124	5,062
		- 44	35.	136	100	700	51,0	207	334	5,163	3/100
OTHER STATE TRADES	15,273 07,704	36 97	34 137.	57 277	. 44 294	**3	1,155	191	227	5,351	7,313
OTHER SISTRIBUTIVE COUCATION SENTAL ABBISTING	10,025	25	97	47	230	2,705 219	3,495 1,621	1,357	1,772	10,545	19,105
SENTAL HYSIENE (ASSOCIATE DESREE)	6,496	3 -	27	7	••	29	425	55	237	-515	5,074
DENTAL LABORATORY TECHNOLOGY	3,252	•	•	20	32 ,	234	201	110	•••	764	1,514
MEDICAL LABORATORY - ABBISTING OTHER MEDICAL LABORATORY - TECHNOLOGY -	13,143	24	64	50	139	649	2,979	242	544	1,702	7,050
MMBING(ABOCIATE DEGREE)	90,733	102	31 340	28 256	1,329	17062	312	. 666	200 3,745	74 <b>5</b> 7,337	2,461
PRACTICAL (VOCATIONAL) NURSING	71,366	75	400	110	711	799	7,005"	411	2,005	4,107	52,775, `
NURSING ASSISTANCE (A 19E)	44,319	45	251	151	752	591	4,155	468	2,415	3,109	29,992
OTHER NURSING REMARKLETATION	12;101	19	76	51	183	,263	2,000	. 553	, 720	1,241	.7,700
RADIOLOGIC TECHNOLOGY (X-RAY)	. 5,775. 10,709	33	27 ·	15 130.	) \$6 125	178	. 641 917	63 361-	. 237 516	578 2,340	3,970
MEMPAL MEALTH TECHNOLOGY	10,526	49	115.	<b>*34</b>	120	515	1,634	100	425	1,467	0.920
IMMLATION THERAPY	10,121	20	51	56.	156	443	105	550	390,	5,55#,	5,554
MEDICAL ADDIBYANT	18,210	57	175	51	-247	367	2,723	145	925	1,440	· jišišiš
COMMUNITY HEALTH-AIDE HEDICAL EMERGENCY TECHNICIAN	7,716	103	195	45	42 247	120	<b>958</b> 79 <b>8</b> 2	300	437 613	458 5,795	5,610 ``
OTHER HEALTH OCCUPATIONS EDUCATION	47,795	74	- 260	245	449	1,760	7,020	775	1,033	6,339	27,016
ÉWE.S. ONIDYNCE.CL CHITOUCH	101,553	124	055	307	1,336	2/092	18,901	1,063	7,203	6,721	42,791
CLOTHING MET., PROD., & SERVICES	31,463	75	139	. 70	379	2,943	10,064	213	.1,410	1,550	14/055
PODD NOT., PRODUCTION, & SERVICES HOME FURN., EQUIPMENT, & SERVICES	10,600	144	300	•24 •4	892 167	6,364 257	14,994	1,195	2,025	17,569	35,613 5,708
INSTITUTIONAL S NOME RET. A SUP.	5,799	· •	34	ii	40	243	100	***	240	710	3,537
OTHER OCCUP, PREP, FOR HUNGHAKING	16,473	34	140	24	101	1,045	2,750	450	1,252	2,367	7,918
ACCOUNTING & COMPUTING UCCUPATIONS	402,004	1,620	27100	4,760		217351	40,671	1,962	23,650	96,786	192,997
COMPUTE & COMBOLE OPERATORS PROGRAMMERS	25,703 62,359	170	145 273	363 785	547 <b>99</b> 4	1,502	3,252 6,423	,2,304°	1,350	8,452 20,129	11,470
OTHER SUCINCOS SATA PROCESSING	79,:11	172	397			4,040	7,132	2,010	4,200	20,776	23/301 '34,451
FILING, OFF. MACHINES, & GEN. OFF.	419,972	817	3,551	2,997	-0,240,	15,013	41,563	6,369	20,760	57,203	235,501
IMPURMATION, COMMUNICATION OCCUP.	21,997	61	173	338	7571	750	2,003	701	.1,403	4,014	10,629
MATERIALS SUPPORT UCCUPATIONS PERSONNEL, TRAINING, & RELATED	2,846	100	103	16 277	17 492	141	147 1,672	31 510	1,313	1,197	1,210
STENSORAPHIC, SECRETARIAL, & RELATED SUPERVISORY & ADMINISTRATIVE HOT.	420,656	446	2,474	2,148	0,100	4,203	54,639	3,950	20,076	33,423	204,023
SUPERVISORY & ADMINISTRATIVE MET.	155,540	463	- 640	1,299		12,103	12,009	3,000	5,354	50,730	58,458
TYPING & RELATES OCCUPATIONS	197,300	577-	1,953	1,003	4,070	6,939.		3,154	12,202	30,006	110,740
OTHER OFFICE OCCUPATIONS	52,958	<b>07</b>	100	252	593	1,346	5,494	729	5,000	0,005	32,444
AMENITECTUMAL TECHNOLOGY AUTOMOTIVE TECHNOLOGY	25,100	.159 143		878 145	551 551	2,897 720	610	1,761 257	563 43	15,169	3,649 593
CIVIL-YECHIOLOGY	15,551	iii	24	354	45	1,233	215	-014	106	11,109	1,449
SLECTRICAL TECHNOLOGY	15,335	76	16	233	65	1,351	123	729.	••	11,973	1 005
ELECTRONIC TECHNOLINEY	10,795	593	110	2,242	740	0,005	1,241	4,534	<b>612</b>	55,715	6,357
- ENVIRONMENTAL—CUNTROL TECHNOLOGY - INDUSTRIAL—TECHNOLOGY	11,047	141	17	136	32	1,002	307	200 201	53 111	4,651 8,874	1,531
HECHANIENT JECHNOFORA	23,590	175	žŤ	391	<b>55</b>	1,999	331	035	150	17,526	2,122
										-	

#### 7AGLE 4.20 -- EMBULIMENT IN OCCUPATIONALLY SPECIFIC PROGRAMS (YEA), BY RACIAL/ETHMIC GESIGNATION AND SEX, AND BY PROGRAMS 1978-70--- CONTINUED

PROGRAM	· TOTÁL	ALASKAN	MATIVE	PACIFI	AMERICAN C-ISLANGE FEMALE	R NOT	HISPANIC SEMALE	MAI E	SPANIC	NOT I	IITE,
*********************	,,					*******	*****			********	********
BRNTSPIC DATA PNOCESOINS	14,967	•1	33	416	129	1,131	725	775	223	7.710	3.74
MMERCIAL PILOT TRAINING	1.120	65	. 19	200		447		491		\$.330	
RE & FIRE BAPETY TECHNOLOGY	11,005	•7	21	177		751		. 370		0,617	7
LICE OCIENCE TECHNOLOGY WER TECHNICAL EDUCATION	57,694 63,627	500 274	103	1,539		5,462		2,092	607	34,262	1 1,4
**		<u> </u>		672	2/3	4,659	3,297	2,471	1,024	35,410	15,2
TER & NASTE HATER TECHNOLOGY R COMPLYIONING	-2,736 40,917	102	13	- 65		169		150		1,78	
PLIANCE REPAIR	12,736	. 96	24 . 14	516 127	. 50 25	6',460 2,427		3,147		36,000	
BY & PRINCE BEFAIR	48.741	527	17	484		0.026		4.771		7,001	
TO MOCHANICO	232,030	2,301	308	5,336		26,070		14,463		46,200	14,0
TOMOTIVE OPECIALIZATION	24,626	107	30	440	1/116	2,301			***	-	
TATEM ACCUPATIONS -	22,340	192	-45	363		1,001		1,749		16,201	
HIBREIAL ART DECUPATIONS	44,253	367	194	512		3, 150	2,269	2,002		16,734	17.3
MMERCIAL ARY DECUPATIONS MMERCIAL PHOTOGRAPHY OCCUP.	22,031	179	<b>S2</b> ,	445	- <u>152</u>	1,457		1,702		ii,iii	
NO SWIRY	114,062	1,309	127	1,699	-214	11,637	1,240	5,067		05,034	7,0
BETATELTY (	:30,615	. 274.	-27	503	- 46	Ã, 436	401	1,770	165 .	26,097	-1,9
	27,201	217	īš	205		1,111		7779		17,547	- 1.1
UNDING & P19EP1772H6	22,043	170	15	300	15	2,484	132	1.033	'45	16,959	
HER CONSTRUCTION & MAINTENANCE	04,352	641	67	1,376	196)	10,092	1,073	5,102	501	50,505	5,0
PAGOLAT BRAAICES	*1,495	105-	52	1,17	` 16	1,613	273	343	•1	5,993	· · · •
IGEL MECHANIC	\$2,295		19	- 213	. 26	2,055		1,104	- 75	17, 310	1,00
W72NG OCCUPATIONS	.96,773	•••	154	,17590	.250	:10,075		4,646	966	62,734	13.6
etrical occupations	37,136	216	26	329	33	4,533	303	1,002	164 -	30,002	1.5
ETTRONICS OCCUPATIONS REMANSHIP, SUPER, , S. MGT. SEVEL.	03,775 10,740	584 136	193	1,240	255 130	9,512 1,340	1,196	5,739 1,506		57,655 10,441	
MILE ARTS OCCUPATIONS		_						-		inter	
STRUMENT, NAZNTENANCE & REPAIR	69,162 2,510	529	196	1,147	424	7,015		3, 353		.37,496	
1171M : GCCUPATIONS .	4.635	37	-1	15 75	, 7 19	415				1,510	
ENTINE SHOP	72.002	AAA	A.	3,005	. 151	333	146	268 3,301	479	3,074	
ENEME TOOL OCCUPATION	72,002	. 50	ii	7,700	15	1,020	196	7223		4,626	
IET HETÁL	16,700	142	26	333	-70	-1,695	211	974	191	117030	174
ATMS & EMPTIME	149.300	1,144	135	1,470	217	120493		6,272		70,469	
N. 6 DIE MAKING WER METALNORMING DECUPATIONS	4,710	17	i.		;	344		-196		3.012	
ER HETALHORKING OCCUPATIONS		220	40	413	73	2,372	297	1,243		20, 341	
VITAMEA OCCALVATIONS	1,209,	4	2	•	2	' 42	-15	35	* <b>•</b> •	911	10
METOLOGY	82,664	-342	363	647	584	2,759	4,574	2,321	3,401	13,724	48.9
ER PERSONAL SERVICES	5,416	20	15	40	55.	7/371	550	175	159	1,774	
ARTIES OCCUPATIONS MENAN TRAINING	2,104	24		73	20	276	. 70.	250	* 59.	1,000	- 41
ENFORCEMENT TRAINING	12,717	-115 333	24	407 1,066	76 275	1 /022	217	1,276	245	7,046	
			•			19784	1,040	• -	1,437	30,049	- 9,51
IER PUBLIC: SERVICE OCCUPATIONS MYSTY POOD OCCUPATIONS	19,944	155	•	450	420	1,524	1,043	1,005	540	.6,057	
RICERATION	34,674 2,748	229	•3	442	274	3,525	2,661	1,491	703	15,342	
LL'ENGINE REPAIR	22,905	25 107	26	220 255	40	353 3,736	35	110	10	1,020	
ITIONARY ENERGY SOURCES OCCUP.	1,493	14	(3	23	7	3,730		1,026	123	16,204	
TILE PROPUCTION & FABRICATION	21,419	76	44	168	285			_		-	
IOLSTERING	7,145	103	34	100	45	2,023	2,039	600 734	2,132	6,36	
BOUTATIONS OCCUPATIONS	32,447	305-	5	595	!53	3,134	612	2,050	145 404	2,005 20,347	1,10
VER TRADEGINOUSTRIAL OCCUPATIONS	90,931	<b>627</b>	140	163	ži	7,913	3,531	4,094	1,429	55, 545	
ER PROSS, SETE THAN 18 OF TOTAL	120,324	509	402	1,312	698	11,753	10,900	2,224	1,011	56,943	41,69
IER PROSS,LESS THAN 18-DF TOTAL	21,619	64	40	45	**	3,647	3,777	1,174	700	11,900	9,77
	•							•			
707AL	5,602,297	49 440									

NOTES: TABLE INCLUDES IMPUTED DATA.
TOTAL COLUMN EXCLUDES SHORT-TERM ADULTS.

SOURCES U.R. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



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Table 4. 21
Distribution of vocational students in comprehensive and vocational high schools, by sex and racial group by program area: Fall 1979

•				Racial/ethnic group									
_			iex	Alaska	an Ind./ n Native	Pac.	n Am./	Blac His	k, not panic	Hie	panic		e, not
Program area	Total	Male	Female	Male	Female	Male	Female	MaJ e	Female	Male	Female	Hale	Female
,	•			<del>, -</del>	-	Percen	tage distr	1but1on					
Total	100.0	47.3	52.7	0.6	[,] 0.6	0.6	<b>.0∙8</b>	8.2	10.4	2.9	3.4	34.9	37.7
Agriculture	100.0	83.2	16.8:	1.6	(0.3	0.4	0.2	11.2	2.0	1.9	0.7	68.0	13.6
Distribution	100.0	44.6	55.4	0.3	0.4	0.4	0.6	7.8	10.5	1.8	2.6	34.3	41.3
Health"	100.0	17.1	82.9	0.3	1.2	0.2	0,6	4.2	21.5	1.3	4.8	11.1	54.5
Consumer and homemaking	100.0	21.1	78.9	0.3	0.9	0.4	1.0	5.6	17.8	1.3	4.3	13.5	54.9
Occupational home economics	100.0	19.0	81.0	0.3	1.1	0.2	0.6	5.4	19.0	1.4	5.1	11.6	55.1
Industrial arts	100.0	89.5	10.5	1.0	0.1	1.0	0.1	11.6.	1,7	6.7	0.9	69.2	7.7
Office occupations	100.0	24.1	75.9	0.3	0.7	0.5	1.4	4.2.	12.6	1.5	5.5	17.6	55.7
Technical	100.0	79.5	20.5	0.6	0.1	3.7	Ò.6	14.9	4.8	7.2	2.3	53.1	12.8
Trade and industrial	100.0	85.4	14.6	1.1	0.2	0.9	0.1	15.5	3.3	6.2	1.1	61.8	9.8

NOTE: Figures are based on enrollments at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



Table 4..22 Distribution of vocational students in area vocational centers (secondary), by sex and racial group by program area:

				A	<del></del>		Re	cial/ethr	ic group				
Program area	Total:	Mele	Female	Alaska Male	an Ind./ n Native Female	Pac.	n Am./ Isl.	Blac His	k, not		panic .	Whit	e, not
<del></del>		<del></del>				Male	Female	Male	Female	Male	Female	Male	Female
						Percen	tage distr	lbution.			<del></del>		
Total	100.0	59.7	40.3	Ó.5·	-0.4	Q. <b>4</b>	·0.4	5.3	5.0	2.1	2.2	.51 /	,
Agriculture '	100.0	71.5	28.5	0.7	0.2	0.3	0.1	5.3	1.3	1.8	-	51.4	32.3
Distribution	100.0	29:5	7Ô.5	0.5	1 <b>.</b> Ô	0.4	0.6	2.9	6.5		1.1	63.4	25.7
Health	100.0	7.6	92.4	0.2	0.9	0.1	0.7			2.4	7.9	23.3	54.6
Consumer and homemaking	100.0	16.7	83.3	0.1	0.2			1.3	10.5	0.8	3.8	5.4	76.5
Occupational home economics	100.0					0.2	0.7	3.1	.19.0	0.3	0.7	13.0	62.5
		18.1	81.9	0.1	0.6	, <b>0.1</b>	0.2	3.3	14.9	0.7	2.9	13.9	63.2
Industrial arts .	100.0	89.1	10.9	0.1	(*)	0.7	(*)	8.1	1.6	2.4	0.1	77.8	9.2
Office occupations	100.0	16.3	83.7	0.1	0.8	Ò.2	1.6	1.8	10.5	1.0	5.4		
'echnical	100.0	73.7	26.3	0.3	0.1	0.2	0.1	6.4				13.1	65.4
rade and industrial	100.0	<b>8</b> 2.3	17 7	<b>0</b> ) <b>-</b>				0.4	2.2	1.5	0.5	65.3	23.4
		02.3	17.7	0.7	0,1	0.4	0.1	7.0	1.6	2.7	1.1	71.4	14.7

(*)Less than 0.05%.

NOTE: Figures are based on enrollments at institutions with five or more vocational programs only. Details may not add to totals because of rounding. SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

Table 4..23
Distribution of vocational students in area vocational schools (postsecondary), by sex and racial group by program area: Fall 1979

Program srea				Racial/ethnic group									
		Sex		American Ind./ Alaskan Native		Asian Am./ Pac. Isl.		Black, not Hispanic		Hispanic		White not Hispanic	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	Percentage distribution:												
Total	100.0	54.0	46.0	0.5	0.4	0.5	-0.3	6.5	6.2	1.1	0.8	45.4	38.5
Agriculture	100.0	71.9	28.1	0.7	0.1	0.1	0.0	0.6	0.4	0.5	0.3	70.0	27.4
Distribution.	100.0	36.2	63.8	0.3	0.5	0.3	1.5	2.2	3.7	0.6	1.2	32.8	56.9
Health	100.0	11.6	88.4	0.1	0.4	(*)	0.2	0.9	11.7	0.1	1.3	10.5	74.9
Consumer and homemaking	100.0	8.1	91.9	(*)	0.1	0	0.1	0.1	3.2	0	0.1	8.1	88.4
Occupational home economics	100.0	11.3	88.7	0	0.1	0.1	0.1	3.4	17.7	0.1	0.2	7.7	70.6
Industrial arts	100.0	75.5	24.5	0	0	0	0	0.2	0.5	0.5	0.7	74.8	23.3
Office occupations	100.0	17.6	82.4	0.1	1.0	0.2	0.3	1.8	14.1	0.2	1.5	15.3	65.4
Technical	100.0	88.1	11.9	0.5	(*)	1.1	0.2	8.8	1.8	1.2	0.2	76.6	9.6
Trade and industrial	100.Ò	86.3	13.7	0.8	0.1	0.7	0.1	12.2	1.9	2.1	0.4	70.3	11.2

(*)Leas than 0.05%.

NOTE: Figuras are based on enrollments at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



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Table 4.24
Distribution of vocational students in 2-year institutions of higher education, by sex and racial group by program area: Fall 1979

							Ra	cial/ethn	ic group				
Program area	Total	Male	Sex Male		an Ind./ n Native	Pac.	n Am./ ~ . Išl.	Hispanic		His	panic	White, not Hispanic	
<del>-</del>		inte	Female	Mele	Female	Male	Female	Male	Female	Male	Female	Male	Female
			, , ,	- +-	, ,	Percer	tage distr	lbution	¥		<u> </u>		<del></del>
Total	100.0	⁴⁹ •5	50.5	0.5	0.5	1.6	1.3	4.9	5.9	3.0	2.9	39.5	39.9
Agriculture	-100 <b>.</b> 0,	67.7	32.3	1.1	0.3	0.9	0.4	2.3	0.9	2.6	0.8	60.8	29.9
Distribution	100.0	50.1	ع <b>رو.49</b>	0.4	0.4	1.8-	1.4	3:7	3.7	2.9	2.6	41.1	41.8
Health	100.Ó	17.3	82.7	0.2	0.7	0.4	ì.4	1.6	<b>7.8</b> ′	1.0	3.1	14.1	69.7
Consumer and homemaking	100.0	30.7	69.3	0.2	0.6	0.6	.1.3	0.9	2.9	0.9	5.1	28.2	59.5
Occupational home economics	100.0	14.9	85.1	0.2	1.0	0.4	, 1.6	1.9.	12.3	0.9	6.3	11.5	64.0
Industrial arts	100.0	58.5	41.5	1.7	1.5	1.6	0.2	6.5	7.4	4.3	1.4	44.3	30.9
Office occupations	100.0	35,1	64.9	0.3	0.7	1.2	1.8	4.4	9.4	1.9	4.0	27.3	
[echnical	100.0	80.4	19.6	0. <b>š</b>	0.2	2.2	0.5	7.6	3.1	3.7	1.0	66.0	49.0
Trade and industrial	100.0	76.0	24.0.	0.9	0.3	2.8	0.9	7.8	2.5	6.3	1.8	58.2	14.9 18.6

NOTE: Figures are based on enrollments at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

Table 4.25
Percent of vocational students who are handicapped, in institutions with five or more vocational programs, by type of school and by program area: Fall 1979

Program area	All schools	Comprehensive and vocational high schools	Area vocational centers (secondary)	Area vocational schools (postsecondary)	2-Year institutions of higher education
All programs	2.5	2.6	4.1	2.8	1.3
Agriculture	3.1	3.1	5.6	3.0	1.7
Distribution	1.7	2.1	4.6	2.7	0.9
Health	1.9	2.5	4.2	2.3	1.3
Consumer and homemaking	2.3	2.4	4.3	0.0.	0.5
Occupational home economics	4.0	3.9	9.2	1.6	1.8
Industrial arts	2.5	2.8	4.7	2.2	8.0
Office occupations	1.4	1.3	1.9	3.2	1.3
Technical	,1.4	2.3	2.0	. 2.5	1.2
Trade and industrial	3.6	3.9	5.4	2.9	1.4

SOURCE: United States Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



Table 4.26
Percent of vocational students who are limited-English-proficient, in institutions with five or more vocational programs, by type of school and by program area: Fall 1979

Program area	All schools	Comprehensive and vocational high schools	Area vocational centers (secondary)	Area vocational schools (postsecondary)	2-Year institutions of higher education	<del></del>
All programs	0.7,	0.7	0.5	0.6	0.6	
Agriculture	0.3	0.3	0.1	0.1	0.5	•
Distribution	0.3	0.3	0.4	0.4	0.3	
Health	0.4	0.5	0.2	0.1	0.4	
Consumer and homemaking	0.6	0.5	1.1	0.0	1.1	
Occupational home economics	0.7	0.8	` 0.4	0.2	0.6	
Industrial arts	0.6	. 0.6	0.6	0.0	0.1	
Office occupations	.0.7	0.7	0.4	0.2	0.5	
Technical	0.7	0.6	0.1	0.7	0.7	
Trade and industrial	0.8	1.0	0.3	0.9	0.7	

SOURCE: United States Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



TABLE 4.87 -- STUDENTS SENEPTYTING FROM-VOCATIONAL EDUCATION PROGRAMS, SY SPECIFIC CONDITIONS, AND BY STATE OR OUTLYING AREAS 1978-79

TATE OR OUTLYING AREA	MANDICAPPED	DISADVANTAGED	LIMITEU ENGLISH SPEAKING	auak 2 Tuo y	SPECIAL DI BADVANTAGED	ECUN Dephersed Areas
***************		***********	•••••••	••••••••		
LABAMA	3,001	39,089		, 374	576	48,786
12301A 12301A	45	0,097	68	•	26	9.
MANGA 2	2,725 4,125	4,666	305	355	1,374	0,235
MIPORNIA	24,669	18,688 155,307	86		4,695	30,677
7-1-1	- • -	1331301	15,700	4, 305	34,191	146,898
NORADO PHIECTICUT	2,697	5,465	.210	225	117	3,926
LAHARE	3,673 1,611	13,143		374	617 -	20,505
STRICT OF COLUMBIA	514	1,634 1,150	15 03	56 20	367	1,105
ORIBA .	6,626	30, 155	1,045	1,007	637 12, 465	7,368 . 23,498
A 1980	3,962	16,145			•	
WAII	2,152	16,262	261	581	· · · · · · · · · · · · · · · · · · ·	37,945 18,418
ANO		1,566	15	îiż	145	7,203
LINOIS	27,561	115,357	2,472	1,925	2, 105	24,521
IO SANA	4,420	5,476	84	689	3,641	27,002
NA .	3,205	17,866	134	•	1,250	31,149
MBAS MTUCKY	5,151	3,964	53	19	5,362	5,003
MTUCKY W101ANA	6,332	24,763	34	960	2,553	53,000
INE MANAGEMENT	4,676 -325	67,306	•	414	7,629	24,090
		1,957	•	Įė7	119	7,630
AYLAND BACHUSETTS	5,020	11,572	27	302	3,246	48,296
CHISAN	3,674 4,677	0,679	501	•	741	20,243
MHE BOTA	5,741	11,677 0,553	256 225	•	1,399	4,309
881881991	3, 679	7,957	623	.0	2,674 1,304	\$6,811 -2,372
SACUR I	8,976	* *		-	•	
BRASKA	1,343	7,884° 5,293	142 50	363 141	2,139	47,032
VADA	701	1,354	35	•5	154 736	11,003
W HAMPOHIRE	498	1,113	ï	7	770 864	000 5,391
M DEUBEA	2,517	12,216	, •	4,663	0,001	53,555
M MENICO	1,142	6,917	1,000		166	14,972
M. YORK	-13,006-	73,433	5,473	2,300	7, 100	182,111
MTH:CAROLIHA MTH DAKOTA	10,065	40,559	1,902	1,119	3,296	17,006
10	398	3,898 34,362	18* 92	150	115	4,242
•		37/346	=	1,053	1,436	184/454
LAHOHA E <b>B</b> OH	3,014	5,350		335	2,590	29,696
MMSYLYAN IA	2,723 8,832	18,472 14,071	141	.10	898	3,270
DOE IBLAND	1,702	4,010	143 30	516 116	3,662	13,644
UTH CAROLINA	3,955	15,104	9	251	122 761	1,769 35,563
UTH DAKOTA	· 234	1,629	•	88		
MICOGE	4,038	19,107	631	983	65 1,725	570,1
XAQ-,	7,070	34,356	794	1,151	1,467	44,499 143,393
AH 1	1,626	3,676	500	••••	3,057	5,679
RMONT	536	.1,740	96	, •	į.	5,303
r <b>g</b> ihia	9,107.	16,737	515	1.642	1,000	24,67ó
SHINGTON	6/010	25, 133	73	219 ,	1,708	10,050
by Virginiy Bednein	2,533	7,310	1.19	330	.824	10,702
DK146	- ···5,651 208	24,360 625	7; 321	722	5,718 976	10,561
			· ·	•	• •	2,342
107AL U.S.	234,341	972,436	41,590	27,632	136,000	1,429,744
ERICAN BANUA	16	1,957	1,435	` 35	30	513
AM' ERTO RICO	56 1,573	· •	440	101	356	954
	11773	24,570	645	216	15,772	20,510 .
OUTLYING AREAS	1,647	26,527	2,517	355	16,166	21,905
. & DUTLYING AREAS	235,988	***,**5	44,107	27,904	152,976	1,451;729

SOURCE: U.S; DEPARTMENT'UF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



## Vocational Education Facilities

The condition of facilities is important in considering access to vocational education in the future. Clearly, the nation's institutions cannot offer vocational education training programs without adequate facilities. While information is not available on the extent and condition of all facilities (public and private) which offer vocational education programs, information is available for those institutions which are eligible for construction funds under the Vocational Education Act (VEA). These institutions - referred to as "area vocational schools" in the VEA - include:

- (a) A specialized high school used exclusively or principally for the provision of vocational education;
- (b) The department of a high school exclusively or principally used for providing vocational education in no less than five different occupational fields;
- (c) A technical or vocational school used exclusively or principally for the provision of vocational education; or,
- (d) The department or division of a junior college or community college or university which provides vocational education in more than five different occupational fields.

A survey of State agencies responsible for the administration of vocational education identified over 7,500 institutions meeting these catteria. The universe of interest for the study was defined as "all public secondary, and 2-year postsecondary institutions having five or more shop/laboratories/classroom facilities in different program areas in vocational technical education and administered by public school systems or as free-standing 2-year postsecondary educational institutions or systems". Included in the study were 4,878 comprehensive high schools, 225 vocational high schools, 1,248 area vocational centers (secondary), 310 area vocational schools (postsecondary), 162 technical institutes, and 720 community and junior colleges.

Area vocational education institutions are widely distributed across regions. However, variations in the program offerings of institutions affect student access to vocational education. Institutions offering postsecondary vocational education (area vocational schools; technical institutes, and community colleges) and secondary vocational education through regional area vocational centers are concentrated in multi-town service areas. Nearly 40 percent of each of these types of institutions are located in these service areas (table 5.1).

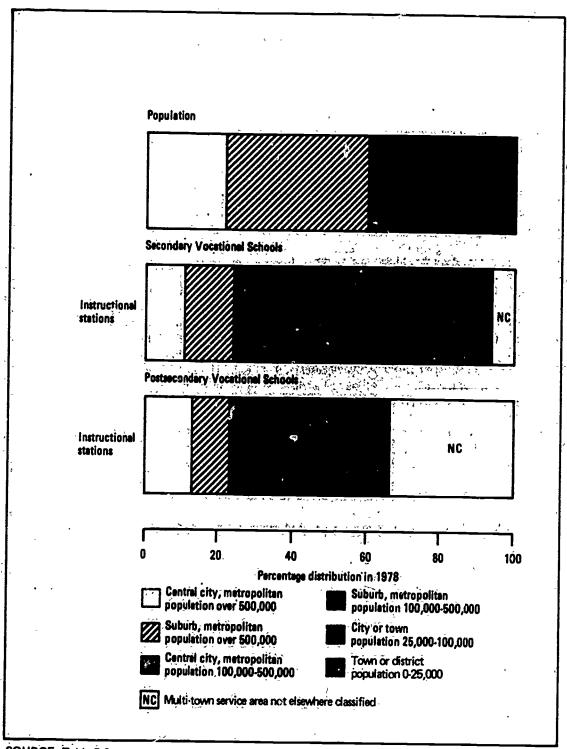
Many of the institutions serve medium and small towns and rural populations (areas having a population of under 100,000). Just over 60 percent of the secondary institutions (providing 56 percent of the secondary institutions) and 28 percent of the postsecondary institutions (providing 22 percent of the postsecondary instructional stations) serve these populations (chart 5.1 and table 5.2). In comparison, less than 27 percent of the population live in areas of under 100,000 persons. This analysis does not include an assessment of the location of competing providers of vocational education (such as proprietary schools) which serve predominantly urban/suburban populations. While the data suggest that some success has

The data and conclusions presented in this chapter are drawn from the final report of survey results prepared for the U.S. Department of Health, Education, and Welfare, Office of Planning, Budget, and Evaluation. Institutional Development Associates, Inc. and Westat, Inc., National Study of Vocational Education Systems and Facilities, October 1978.



931.41

Chart 5.1
Population and Instructional Stations in Vocational
Education Institutions Offering Five or More Programs



SOURCE: Table 5.2



been achieved in providing access to rural populations, rural students do not have the same access to the diversity of institutions that urban students have (chart 5.2).

Data on the construction of new facilities and additions to existing facilities since the passage of the VEA in 1963, which provided funds for the construction of facilities, demonstrate an emphasis on providing access to rural populations. According to testimony presented before the House Committee on Education and Labor in 1976, the construction funds "opened up the possibility of participating in vocational education for the first time to millions of students and adults in smaller school districts and in rural areas." At least 3,150 construction projects affecting almost 2,200 institutions were carried out between 1965 and 1976 (table 5.3). Of these, 72 percent of both the secondary and the postsecondary projects affected other than urban or suburban populations.

The need for further construction of area vocational facilities cannot be determined without considering the capacity, utilization, and condition of existing structures. In terms of capacity, the "average" area vocational facility houses over 18 shops and laboratories (table 5.4). In general, postsecondary institutions are larger than secondary institutions. As one might expect, the non-urban facilities have fewer shops and laboratories than urban/suburban institutions; particularly at the postsecondary level (table 5.5). However, the large number of institutions in the non-urban areas offset this size factor so that non-urban areas have the majority of the instructional stations:

The following factors affect the utilization of facilities: the number of shops, laboratories or classrooms; the capacity of each type space; the exposure per student per day to the shop, laboratory, or classroom; and the number of students served per day by type of space. The formulation of a measure of utilization permits the comparison of institutional types. The resulting computations suggest that secondary facilities—particularly comprehensive high schools—experience the highest levels of utilization (table 5.6). This is despite the fact that postsecondary facilities are generally utilized more hours of the day (table 5.7). These utilization rates are not consistent with the experience of many vocational education program specialists, nor are they consistent with testimony presented before the House Committee on Education and Labor in 1976. Part of this inconsistency may be attributable to the great diversity of "hours per class session" which apply to different courses in different institutions.

A utilization level U was defined as follows:

$$U = \frac{E}{\sum_{i=1}^{m} C_{i} n_{i} f_{i}} \times [100]$$

where: E = total number of students served daily by all vocational shops, laboratories or classrooms

ni = number of shops, laboratories or classrooms for program i

Ci = total capacity (in stations) per shop, laboratory or classroom of type i

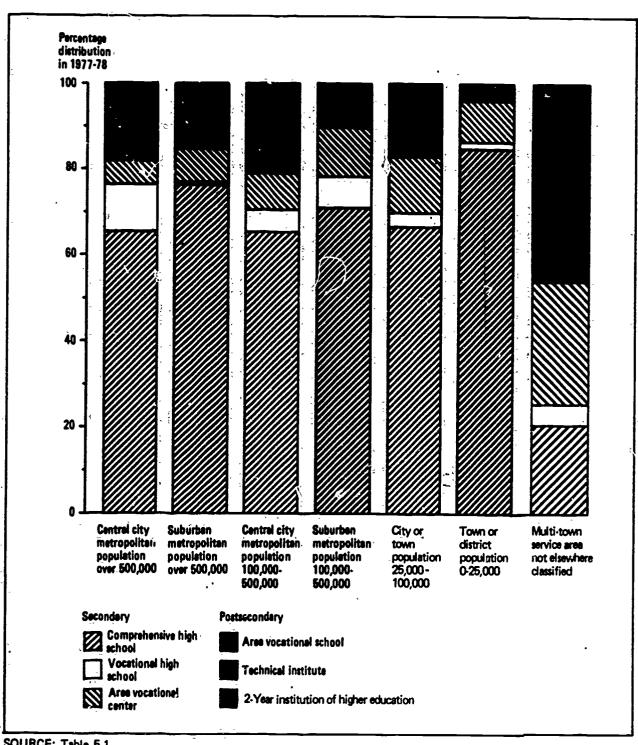
fi number of class sessions in facility i per day ("f" is computed as the total daily operating hours of institutions * hours per class session), and

m = number of programs at the school.

Another aspect of utilization is the use of school facilities for extended day, evening, Saturday, and summer sessions as well as the use of the facilities by non-public institutions and other agencies or organizations. Almost half of the secondary vocational education schools conduct extended day and Saturday sessions, two-thirds hold summer sessions, and almost 80 percent conduct evening classes. At the postsecondary level, approximately 60 percent of the institutions conduct extended day and Saturday sessions, and virtually all hold evening and summer sessions (table 5.8).



Chart 5.2 Vocational Schools, by Type of Region Served



SOURCE: Table 5.1



The lower utilization rates at the postsecondary level are further offset by the use of those facilities by non-public institutions and other agencies/organizations. Over three-fourths of the postsecondary facilities are utilized by manpower programs such as CETA, and half of the postsecondary institutions are used by industrial training programs and adult programs not administered by the vocational education department of the school (table 5.9).

The condition of existing facilities is a third factor in evaluating construction needs. Overall, 88 percent of the institutions in the facilities study responded that their facilities were in good condition or in need of only minor maintenance (table 5.10). Most types of institutions reported that their facilities were in this condition, except single district vocational high schools and postsec indary technical institutes which reported 25 and 18 percent, respectively, of their facilities were in need of major maintenance or replacement (chart 5.3). Clearly the facilities in the central city metropolitan areas are in the worst condition, with 22 percent of the facilities serving populations over 500,000 and 15 percent of the facilities serving populations between 100,000 and 500,000 in need of major repair or replacement (chart 5.4 and table 5.11).



Chart 5.3
Reported Condition of Vocational Education Institutions, by Type of Institution

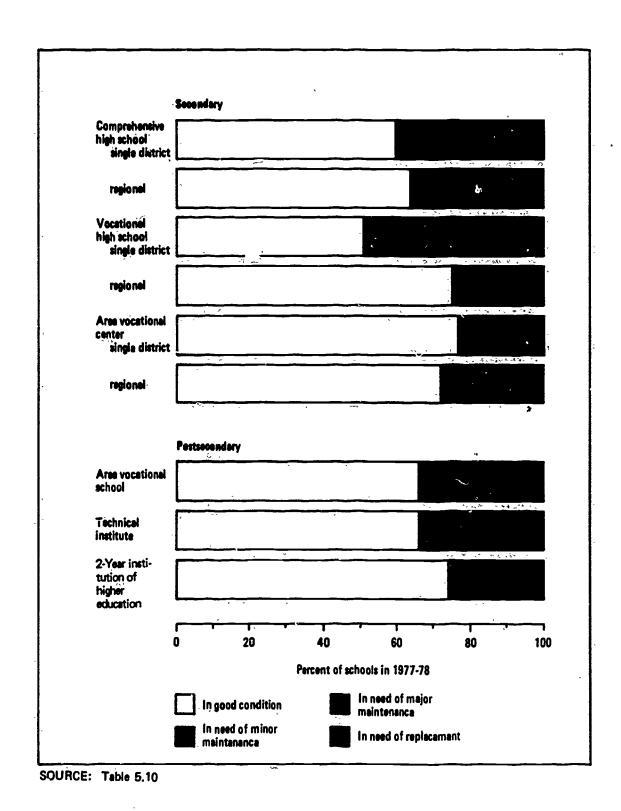
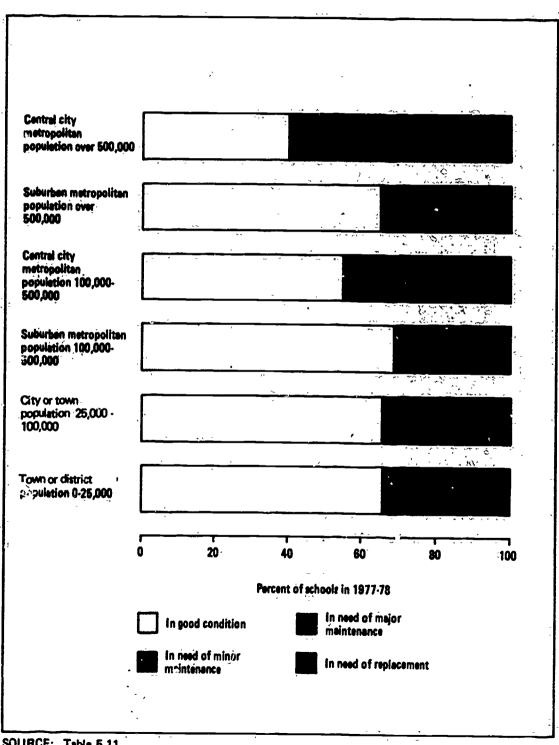




Chart 5.4 Reported Condition of Vocational Education Institutions, by Type of Region Served



SOURCE: Table 5.11

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Table 5.1 Schools with five or more vocational programs, by type of institution and region served: 1977-78

			· · · · ·	Region	0 - 1 -			
<b>De</b>	Total	Central city metro area over 500,000	Suburb metro area over 500,000	Central city metro area 100,000 - 500,000	Suburb metro a ea 100,000 - 500,000	City or town 25,000 - 100,000	Town or district 0 - 25,000	Multi-town service area
Single district Regional	4,092 422	329 34	484 47	277 29	206 20	679 83	1,957	160 31
Single district Regional	86 131	39 21	2 4	13 12	3 14	16 22	7 16	6 42
Single district Regional	237 592	17 13	15 45	20 17	13 21	46 112	95 149	31 235
choo1	<b>2</b> 60	12	12	, 22	5	55	49	105
te	146	. 12	6	<b>20</b> ×	4	23	10	71-
	694	79	9,2	60	24	119	<b>56</b> .	264
	Single district Regional  Single district Regional  Single district Regional  chool	Single district       4,092         Regional       422         Single district       86         Regional       131         Single district       237         Regional       592         chool       260         te       146	Central city   metro area   over   500,000	Central city   Suburb   metro area   over   500,000	Central city   Suburb   metro area   100,000 - 500,000	Central city   Suburb   Metro area   metro	Central city   Suburb   Central city   Suburb   City or metro area   over   over   100,000 - 100,000 - 100,000 - 100,000	Central city   Suburb   Central city   Suburb   metro area   metro area   metro area   metro area   metro area   metro area   100,000 - 25,000 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0

SOURCE: U.S. Department of Health, Education, and Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.



Table 5.2
Institutions and instructional stations compared with population, by type of region for secondary and postsecondary schools: 1977-78

·	Population	Inst:	itutions	Instructiona stations
Region	Percent	Number	Percent	Percent
	SECON	DARY.	-	
Total	100.0	5,560	100.0	100.0
Central city, metropolitan population over 500,000	22.8	453	8.1	10.6
Suburb, metropolitan population over 500,000	38 <b>.</b> 0	597	10.7	13.5
Central city, metropolitan population 100,000-500,000	:8.9	368	6.6	8.2
Suburb, metropolitan population 100,000-500,000	36	277	5.0	6.1
City or town population 25-100,000	3.1	958	17.3	21.4
Town or district population 0-25,000	23.6	2,402	43.2	34.5
Multi-town service area	NA	505	9.1	5.7
				*
	POSTSECO	NDARY		,
Total	100.0	1,100	100.0	100.0
Central city, metropolitan population over 500,000	22.8	103	9.3	13.3
Suburb, metropolitan population over 500,000	38.0	110	10.0	10.5
Central city, metropolitan population 100,000-500,000	8.9	102	9.3	17.1
Suburb, metropolitan population 100,000-500,000	3.6	33	3.1	2,9
City or town copulation 25-100,000	3.1	197	17.8	15.5
Town or district population 0-25,000	23.6	115	10.5	6.7
ulti-town service area	ŅĀ	440	40.0	34.0

SOURCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978:



Table 5.3

New facility construction and additions by type of region for secondary and postsecondary schools: 1965 through 1976

		ects	Institutions			
Region	Number	Percent	Number	Percent		
		SECONDARY				
Total	1,934	100.0	1,567	100.0		
Central city, metropolitan population over 500,000	83	4.3	, 72	<b>4.6</b>		
Suburb, metropolitan population over 500,000	201	10.4	159	10.1		
Central city, metropolitan population 100-500,000	147	7.6	108	6.9		
Suburb, metropolitan population 100-500,000	105	5.4	84	5.6		
City or town population 25-100,000	371	19.2	299	19.1		
Town or district population 0-25,000	702	36.3	.597	38.0		
Multi-town service area	325	16.8	248	15.7		
	<u> </u>	<u> </u>	<u> </u>	·		
		POSTSECONDARY				
Total	1,216	100.0	610	100.0		
Central city, metropolitan population over 500,000	81	67	42	6.9		
Suburb, metropolitan population over 500,000	1,07	8.8	54	8.9		
Central city, metropolitan population 100-500,000	114	9.4	53	8.9		
Suburb, metropolitan population 100-500,000	34	2.8	17	2.8		
City or town population 25-100,000	232	19.2	120	19.5		
Town or district population 0-25,000	118	9.7	54	8.9		
ulti-town service area	530	43.4	270	44.1		

SOURCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.



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Table 5.4 Vocational education shops and laboratories by institutional type: 1977-78

		<u></u>					. Nun	ber of	shops a	nd labor	atories					
Institutional type	pė	5	6	7	8	9	10- 11	12- 13	14- 15	16- 20	21~ 25	25 <b>-</b> 30	31 <b>-</b> 35	35 <b>-</b> 40	40+	Average
Total		202	226	262	266	317	651	.632	684	1234	704	431	239	129	343	18.36
Comprehensive high school	Single district Regional	137 16	159 17	192 12	184 14	215 30	452 39	449 47	467 55	772 87	410 38	199 27	67 12	31 8	52 11	15.29 16.53
Vocational high school	Single district Regional	0 3	1 0	2 0	0 4	3 2	6 7	9 7	6 10	16 28	16 14	7 15	5 15	4 11	10 20	23.63 26.56
Area vocational center	Single district Regional	10 16	8 22	9 24	16 -22	13 30	25 58	25 40	20 55	55 113-	26 79	10 54	8 29	5 12	5 , 31	16.18 18.92
Area vocational s	school	3	3	6	8	9	13	20	17	39	25	29	26	14	48	28.51
Technical institu	ite	0	2	2	3	2	8	1	9	31	16	24	9	9	25	30.85
Community college	•	17	14	15	15	13	43	34	49	93	80	66	68	35	141-	27-,92

SOURCE: U.S. Department of Health, Education, and Welfaré, Office of Planning, Budgeting, and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.



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Table 5.5

Average number of vocational education shops and laboratories, by type of region served by institutional type: 1977-78

Institutional ty	pe	Central city metro area over 500,000	Suburb metro area over 500.000	Central city metro area 100-500,000	Su urb metio area 100-500,000	City or town 25-100,000	Town/ district 0-25,000	Multi-town service area	Weighted average
Comprehensive high school	Single district regional	18.6 22.6	17.6 17.8	17.7 18.1	17.1 12.2*	18.3 18.0	12.5 14.4	13.9 17.8	15.29 16.53
Vocational high school	Single district regional	24.8 26.1	42.0* 52.0*	29.8 26.6	36.7* 28.5*	17.3 24.2	14.0* 17.8	19.0* 25.4	23.63 26.56
Area vocational center	Single district regional	21.1 23.4	21.4 24.1	19.9 29.1	14.8* 28.3	16.9° 21.3	13.1 14.2	16.5 18.0	16.18 18.92
Area vocational s	chool .	55.4*	48.1*	40.2	28.2	28.9	20.5*	24.3	28.51
Technical institu	te	42.9	50.8*	37.4	20.8*	22.4	20.1	30.6	30.85
Community college		41.6*	28.4	35.9	30.7	26.1	17.1	24.9	27.92

^{*}Data are based on ten or fewer institutions. Unusual conditions relating to one or more institutions may have anomalistic effect on the

SOURCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting and Evaluation, Mational Study of Vocational Education Systems and Facilities, October 1978.

Table 5.6
Estimated average percentage level of utilization of facilities for type of region served, by institutional type: 1977-78

			· · ·	Region se	rved				
Institutional type		Central city metro area over 500,000	Suburb metro area over 500,000	Central city metro area 100,000 - 500,000	Suburb metro area 100,000 - 500,000	City or town 25,000 - 100,000	Town or district 0 - 25,000	Multi-town service area	Weighted average
Comprehensive high school	Single district Regional	× 85•5 87•4	* 77•1	90.9 97.3	91.0 76.4	92.9 84.3	88.5 78.5	79.5 77,1	86.6 80.6
Vocational high school	Single district Regional	80.0 70.1	50.5 65.6	61.6 66.4	59.9 63.4	57.9 63.2	45.0 54.7	73.2 45.5	69.0 59.4
Area vocational center	Single district Regional	98.8 -47:8=	68.3 66.2	60.9 76.4	81.2 75.4	68.0. 63.9	84.0 68.6	62.0 59.1	69.8 65.1
Area vocational_s	chool	54.1	58.3	47.9	52,6	44.5	41.5	45,6	45.4
Technical institu	te	48.9	60.4	46.5	82.7	52.6	42.4	38.1	46.4
Community college		70.4	63.5	59.5	78.1	48.5	43,7	37.9	52.2

*Formula used to compute utilization resulted in rate over 100 percent (102.9).

NOTE: The following hours per class session were used in calculating utilization rates:

	Agri.	Home Ec.	Dist. Ed.	Health	Bus./Off.	Tech./Trad
Secondary	2	2	2	2	1.5	3
Postsecondary	3	3	2	3	1.5	3

SOURCE: U.S. Department of Health, Education, and Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.

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Table 5.7
Average hours of daily utilization of facilities for type of region served, by institutional type: 1977-78

Institutional	type	Central City over 500,000	Suburb over 500,000	Central city 100,000 - 500,000	Suburb 100,000 - 500,000	City or town - 25,000 - 100,000	Town/district 0 - 25,000	Multi-town service area
Comprehensive high school	Single district regional	7.9 7.6	7.9 8.4	7.6 8.0	7.9 8.5	7.9 8.2	7.6 7.7	7.5 8.3
Vocational high school	Single district regional	8.5 9.2	9.8 11.2	10.0 9.8	8.9 10.6	8.8 8.9	8.1 8.6	7.25 10.1
Area voca- tional center	Single district regional	10.2 8.7	10.0 10.6	8.9 9.5	9.4 11.2	9.3 9.8	9.2 9.4	9.0 12.4
Area vocationa	1 school	9.0	12.8	9.5	<b>8.9</b>	10.6	10.0	11.1
Technical inst	itute	10.6	13.2	11.8	13.4	11.4	11.9	12.3
Community coll	ege	11.2	12.3	12.1	10.7	11.6	10.7	11.5

SOURCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.

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Table 5.8
Use of vocational school facilities for extended day, evening, Saturday, and summer sessions: 1977-78

,		•	_ 3	Schedule/ses	sion operated		,
c	Institutional ty	<b>pe</b>	Extended day ¹	Evening ²	Saturday	Summer	7
·	;			Percent of in	stitutions		344.2
	Comprehensive high School	Single district regional	48.2 52.1	76.7 83.6	45.0 48.0	67.2 67.8	3
c	Vocational high school	Single district regional	42.7 59.4	81.7 96.4	34.6 43.1	49 • 4 65 • 4.	
	Area vocational center	Single district regional	36.2 41.6	91.4 93.4	28.7 34.2	57.0 55.2	-
	Area vocational	school	60.5	98.9	46.0	90•9	,

60.3

75.0

99.3

99.6

52.1

70.1

98.6.

98.6

Technical institute

Community college

COUDCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting Evaluation, National Study of Vocational Education Systems and Facilities, October

¹ EXTENDED DAY, AFTERNOON SESSION: An afternoon program offered after the regular day session has ended, but before six o'clock in the evening and serving different types of students by offering programs which differ from the regular day program.

²EVENING PROGRAM: As designated by this institution. If no local definition exists, "evening program" will mean a program of instruction offered after six o'clock in the afternoon.

Table 5.9 Use of non-educational facilities by educational institutions: 1977-78

Instituțional typ	e· ´		Percent of institutions using resources							
		Percent of institutions reporting	CETA skill centers	Job Corps centers	Private, non- profit training facilities	Armories or military bases				
Comprehensive high school	<u>Single district</u> regional	63.2 73.0	12.4 7.6	2.8 1.2	11.3 11.8	4.4 2.9				
Vocational high school	Single district regional	61.8	11.9 7.8	2.4 1.6	14.3 14.1	7.1 7.8				
Area vocational center	Single district regional	76 <b>.8</b> . 80 <b>.</b> 7	14.4 9.4	0.Ó 0.3	11.5 6.9	2.2 3.9				
Aréa vocational school		85 <b>.</b> 3	15.2	1.3	.12.6	6.6				
echnical nstitute		83.8	10.8	.0•0	20.4	7.5				
Community ollege		90.7	12.2	1.3	19.7	18.3				

SOURCE: U.S. Department of Health, Education, & Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.



Table 5.10
Institutions and condition, by institutional type: 1977-78

			Institutions		-			itutional c		need	<u>.                                      </u>	
		<del>ਛ</del> ਂ ,		Percent		good Ltion	of minor maintenance		of major maintenance		In-nec	ed.of cement
Institutional ty	/pé	Total	Responding	responding	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All instituti	lons	6,660	3,984	60	4,243	64	1,635	24	438	7	344	5
Comprehensive high school	Single district Regional	4,092 422	2,173 237	53 [.] 56	2,437 270	60 64	1,158 107	28 25	297 26	7 6	.200 19	5 5
Vocational high school	Single district Regional	86 131	63 93	73- 71	44 98	5 <u>1</u> 75	21 18	24 14	9	11 7	12 6	14 4
Area-vocational center	Single district Regional	237 592	195 463	82 78	183 .428	77 72	33 115	14 20	15 20	6 3	6 29	3 5
Àrea vocational		260	183	70	171	66	55	21	26	10	8	3
Technical instit	tute	146	112	<b>77</b> -	97	66	24	16	-8	6	17	12
Community colleg	ge	694	465	67-	515	. 74	104	Ì5	·28	-4	47	Ž

NOTE: Figures in this table are estimated from the responses of 3,984 institutions (approximately 60 percent). No evidence was found that suggests that institutions not responding to the question on which this table is based differ significantly from responding institutions.

SOURCE: 'U.S. Department of Health, Education, and Welfare, Office of Planning, Budgeting, and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.



Table 5.11
Institutions and condition, by type of region served: 1977-78

		Institutions	- -	` <u>.</u>	·	Inst	titutional			&_	_
Region	Total	Responding	Percent responding	In cond Number	good ition Percent	of mainte	need minor enance	of mainte	need major enance		ed of cement
	, n= .	<del></del>		Mamber	rercent	Number	Percent	Number	Percent	Number	Percent
All institutions	6,660	3,984	60'	4,243	64	1,635	24	438	7	344	<del></del> -
Central city metropolitan population over 500,000	5Š <b>6</b>	312	56	220·	40	211	36	.74	13	51	5
Suburban metropolitan population over 500,000	707	429	61					•	13	21	9
Central city metropolitan		,25	01	458	·65	186	26	47	7	16	2
population 100-500,000	470	258	Š5, [°]	257	55	141	30	49	10	23	5
Suburban metropolitan population 100-500,000	310	215	69-	213:	69	75	24	14	4		
City or town population 25,000-100,000	1, 155	686	59	764	66				•	8	3
Town or district				. 704,	00	262	23	74	6	<b>5</b> 5	5
population 0-25,000	2,517	1,399	56	1,670	66	570	23	138	5	139	6
Multi-town service area	945	685	72	661	70,	190	20	42	4.	52	-6

NOTE: Figures in this table are estimated from the responses of 3,984 institutions (approximately 60 percent). No evidence was found that suggests that institutions not responding to the question on which this table is based differ significantly from responding institutions.

SOURCE: U.S. Department of Health, Education, and Welfare, Office of Planning, Budgeting and Evaluation, National Study of Vocational Education Systems and Facilities, October 1978.

## **Vocational Education Staff**

The recent rapid expansion of vocational education opportunities has been paralleled by increases in staff at all levels. A profile of staff characteristics suggests, however, that there has been only limited success in providing staff which mirror the heterogeneous nature of the students they instruct.

Trends in the numbers of instructional staff providing vocational education through programs administered under the Vocational Education Act reflect the substantial growth in vocational education at all levels in the 1970's. Since 1972, the total number of instructional staff has grown by over 50 percent, from about 236,000 to more than 354,000 in 1978 (table 6.1). These instructors serve secondary, postsecondary, and adult students. Examination of these totals by program level shows an increase in absolute numbers for all levels, but also the relatively faster growth in the adult area, where the share of the total headcount of vocational staff increased from 26.4 to 32.1 percent between 1972 and 1978 (chart 6.1). The share of instructors at the secondary level decreased slightly, though secondary continued to comprise the largest single share of instructional staff by a substantial margin.

Comparisons of headcounts by level and estimates of full-time equivalent (FTE) staff by level reveal strikingly different patterns in the employment status of instructors. Postsecondary and adult vocational education instruction is supplied to a much greater extent by part-time instructors than is the case at the secondary level (chart 6.2). When calculated as full-time equivalents, the number of that is all staff for 1978 reduces to 264,729 down from 354,175. The percent for FTE secondary instructors in 178 is 84.3 percent of the headcount estimate of staff at that level. More dramatically, the estimate for postsecondary FTE reduces to 69.7 percent of its total staff, and the estimate for adult FTE reduces to 43.3 percent of the headcount figure. Shares of instructional staff by level also shift when total figures are reduced to FTE, with a majority of 58.4 percent of the FTE instruction being devoted to the secondary level. Despite its substantial proportion, this percent does represent a slight decrease in the share of teachers providing secondary-level instruction since 1972, attributable to the corresponding increase in adult offerings. Total and FTE numbers of staff are available for 1979, by State (tables 6.2 and 6.3). While this information supplies detail by program area and not by instructional level, the totals for headcount and FTE numbers continue the patterns already described.

Profiles of staff by racial/ethnic designation and sex are available for four types of institutions providing vocational instruction. Full-time vocational staff in institutions offering five or more programs are dominated by white, not Hispanic, persons in the three personnel categories of instructional, program/support, and program/supervisory (tables 6.4 and 6.8). The two types of postsecondary institutions studied, area vocational schools and 2-year institutions of higher education, each report fewer than nine percent of instructional staff from minority groups.

Of the four types of schools, comprehensive and vocational high schools in fall 1979 had the highest percentage of instructional staff who were members of minority groups (chart 6.3). A total of 14 percent of the full-time instructional staff in these secondary schools were members of minority groups. The minority staff were predominantly black: 11.3 percent of total instructional staff were black, not Hispanic, while American Indian/Alaskan Natives comprised 0.3 percent; Asian American or Pacific Islanders 0.7 percent; and Hispanics, 1.7 percent.



Chart 6.1 Total Number of Teachers of Vocational Education (VEA), by Level

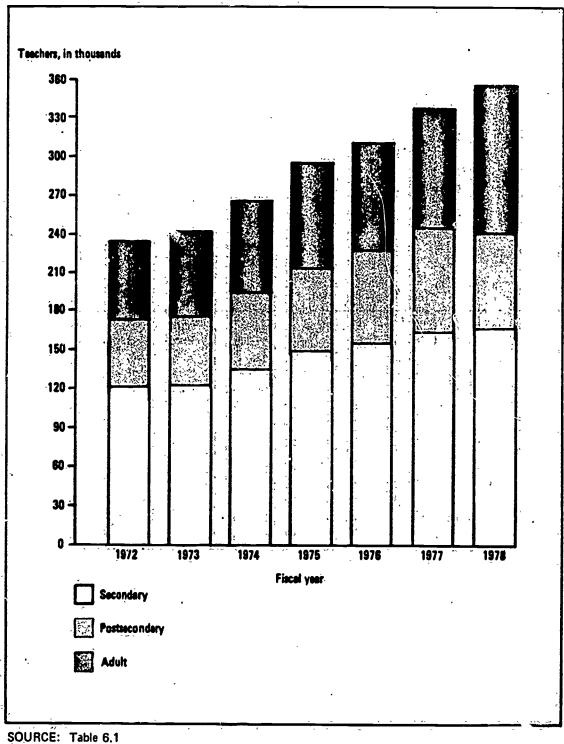




Chart 6.2
Full-Time Equivalent Teachers of Vocational Education (VEA), by Level

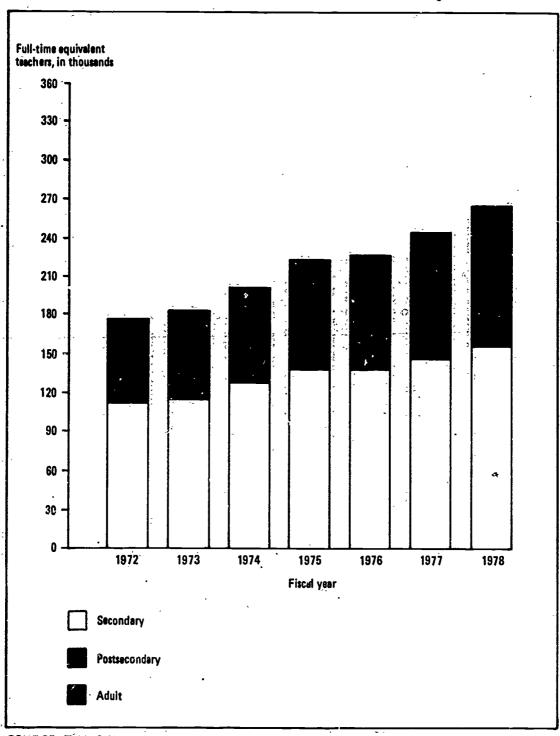






Chart 6.3
Racial/Ethnic Distribution of Instructional Staff in Institutions Offering
Five or More Vocational Education Programs

Secendary Comprehensive	and upasti-	nal high schools			
Comprehansiya	and Aocatio	nai nigh schools			) h
					٠
				-	
• •					
Area vocational	centars				
	14		<del></del>	<del></del>	
,]					2
	•				
Postsecondary					,
Area vegational	schools		100		- 1
	-		· ·	, , , , , , , , , , , , , , , , , , ,	
				•	
W.	÷ ,	<del></del> ,			1 800
2-Year institution	ons of migher	education	- <u>:</u> -	·	
	,			,	,
1			<del></del>		
<u> </u>	<u></u>				
0	20	40	60	80	100
	Po	ercentage distribu	tion in Fall 1979		
.Whita, not	t Hispanic				
		dian/Alaskan Nati	ve, Asian American	n or	
· Pacific Isla	nder		, recent Collection	, <del>V</del> ,	•
	Hispanic				

SOURCE: Tables 6.5 to 6.8



Further scrutiny of racial/ethnic characteristics of vocational staff in comprehensive and vocational high schools suggests that minority staff are concentrated in certain instructional fields. Minorities comprise more than 15 percent of the staff in the fields of Occupational Home Economics, Office Occupations, and Consumer and Homemaking. Minorities hold smaller percentages of the full-time instructional positions in area vocational centers. Postsecondary institutions showed similar profiles, with minority staff having their highest proportions, nine percent or more of positions, in Occupational Home Economics, Consumer and Homemaking, and Industrial Arts, in both area vocational schools and 2-year institutions of higher education.

The predominance of traditional sex distributions in instructional areas is evident among all types of schools. Males hold substantial majorities of positions in the program areas of Agriculture; Distribution, Technical, Trade and Industrial, and Industrial Arts. Females hold similarly sizeable majorities of the positions in the Health, Occupaional Home Economics, Office Occupations, and Consumer and Homemaking program areas. A single exception to the pattern of female majorities is found in 2-year institutions of higher education staff teaching in the area of Office Occupations, where only 45.9 percent are female (chart 6.4).

Vocational program/supervisory staff positions show even greater dominance by males than is observed in traditionally male instructional areas. Males hold more than 80 percent of supervisory positions in the two types of secondary schools and in area vocational schools. Only in 2-year institutions of higher education are fewer than three-fourths (72.3 percent) of the supervisory positions held by males.

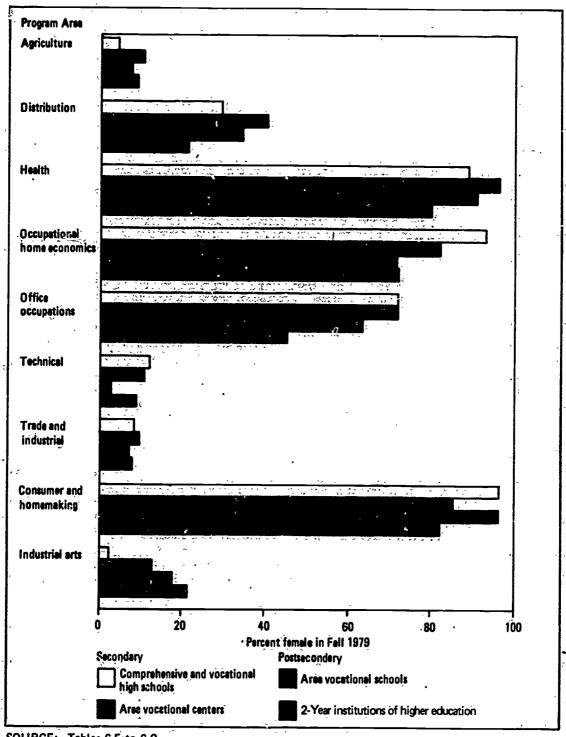
Similar patterns of dominance of a single sex over types of positions are evident in examining the group of noncollegiate postsecondary schools with occupational programs. While the public schools from this group include some of the postsecondary area vocational schools reviewed earlier, the two groups of public schools are not identical. The private schools in this group are not included in the programs under the jurisdiction of State Boards of Vocational Education, so the more than 66,000 instructional staff in private noncollegiate schools are not counted in the total numbers of staff in VEA programs cited earlier. An examination of the staff in these noncollegiate schools reveals that among instructional and administrative staff in public schools, females hold substantial margins in alied health schools, with 95.5 and 71.2 percent of the staff positions, respectively (table 6.9). Public hospital schools, in comparison, have close to equal proportions of males and females in instructional and administrative categories. Among instructional and administrative staff in private schools, females are strongly in the majority in cosmetology/barber, hospital, and allied health schools. Females occupy a majority of the clerical/nonprofessional positions in both public and private noncollegiate postsecondary schools, except for private flight schools. Only 43.1 percent of the clerical/nonprofessional positions in flight schools are held by females.

The predominance of males in supervisory positions is even more apparent in State level staff, where males hold an overwhelming majority of most senior positions (chart 6.5 and table 6.10). While females dominate directorships in the Health (84.2 percent) and Home Economics (100.0 percent) program areas, males hold over 90 percent of the directorships in the areas of Agriculture, Distribution, Technical, and Trade and Industrial. The balance between male and female incumbents is almost even in the Office Occupations program area. Other State level directorships exhibit extreme imbalance, with Sex Equity Coordinators being 98.0 percent female, while State Directors of Vocational Education and Executive Directors of the State Advisory Councils are 98.0 and 94.0 percent male, respectively.

The composition of State Advisory Councils on Vocational Education is more heterogeneous than that of any of the positions cited here. Females comprise 31.3 percent of all council members. Minorities (male and female) make up 22.5 percent of the total.



Chart 6.4
Female Full-time Instructional Staff by Program Area in Institutions
Offering Five or More Vocational Education Programs



SOURCE: Tables 6.5 to 6.8



Chart 6.5
Sex and Racial/Ethnic Distributions of Persons Holding Key
State Level Vocational Education Positions

	State Advisory Councils of Vocational Education	
lember		:
	State Level Vecational Education Staff	
tate director of ocation		
ex equity cordinator		
xecutive irector, SACVE		
irector of agricultural ccupations		
irector of distributive ducation		
irector of health ccupations		
irector of home conomics		
irector of business and ffice occupations		
irector of technical ccupations		
lirector of trade and industrial occupations		
	0 20 40 60 80	100
	Percent distribution in 1978	
	White, not Hispanic, males Minority males	
	White, not Hispanic, females Minority females	

SOURCE: Table 6.10



Table 6.1

Teachers of vocational education (VEA), by level: Fiscal years 1972-1978

Level	1972	1973	1974	1975	1976	1977	1978			
				Heàdcount						
. Total (unduplicated) Secondary1	235,658	243,514	266,220	294,053	309,931	335,301	354,175			
Total Percent Postsecondary ¹ /	131,404 51.5	.133,620 50.3	150,860 51.1	164,664 51.0	164,050 50.0	173,218 48.8	183,507 47.2			
Total Percent Adult	56,311 22.1	58,298 21.9	66,776 22.6	72,377 22.4	76,919 23.4	85,564 24.1	80,443 20.7			
Total Percent	67,242. 26.4	73,900 27.8	77,579 26.3	86,132 26.6	87,436 26.6	95,974 27.1	124,586 32.1			
	Full-time equivalent									
Total Secondary	175,882	181,694	203,789	222,158	225,469	243,637	264,729			
Total Percent Postsecondary	110,796 63.0	112,664 62.0	127,201 :62.4	138,840 62.5	138,322 61.3	146,052 59.9	154,728 58.4			
Total Percent Adult ²	39,241 22.3	40,626 22,4	46,534 22.8	50,437 22.7	53,602 23.8	59,626 24.5	56,058 21.2			
Total Percent	25,845 14.7	28,404 15.6	30,054 14.8	32,881 14.8	33,545 14,9	37,959 15.6	53,943 20.4			

^{1/}Headcounts for secondary and postsecondary levels after 1972 are NCES estimates derived by holding the ratio of headcount to F.T.E. constant. If, in fact, the mix between full-time and part-time staff is changing at either level, these figures will be correspondingly in error.

SOURCE: U.S. Department of Heal, 1, Education, and Welfare, U.S. Office of Education, Division of Vocational and Technical Education, Annual Reports, 1972-1978.



^{2/}Adult F.T.E. figures are NCES estimates derived by attributing one-third F.T.E. to a part-time instructor.

NOTE: Headcount totals contain some duplication among levels.

TABLE 6.2 -- TEACHERS AND STAFF (PULL-TIME EQUIVALENTS), BY PRUGRAM AREA AND BY STATE UN UUTLYING AKEA:

					CONB.	UCEUP.				TRADE	-	
TATE OR OUTLYING AREA	TOTAL	AGRI- CULTURE	DISTA:-	HEALTH	- E HMMKS	HOME	IND.	UFFICE	TECH-	8	OTHER	BPEC 1A
10000000000000000000000000000000000000			BUTIUN	11 JASH		ECUN	ARTA	UCCUP.	HICAL	INDUS	NEC	734
ABAMA					*** -						14.	
LASKA	4534.4	449.3	159.2	405.1	559.3	130.2	34.0	676.1	144.3	1931.7	45.1	0.0
II <b>I</b> ONA	500.2	•.3	20.1	33.4	52.0	31.6	20.0	169.4	24.9	197.8	14.7	0.0
Mansas Mansas			1.5		0.0	-0.0	0.0	, 0.0	0.0	0.0-	0.0	0.0
Mifornia	2307.1	263.5	60.2	319.5	393,3	35.6	43,9	307.1	0.0	484.3	199.7	0.0
PIAMUIV	14535.0	144.5	1100,5	1984,5	1973.1	509,1	1461.7	5114.2	1145.6	4851.4	0.0	0.0
MORADO	3143, 1	152.2	220.3	286.0	335.0	141.0	0.0	483.6	394.6	761.5	.0.0	0.0
BMMECTICUT	4401.5	42.8	187.8	131.0	752.0	35.0	1323.0	1128.0	11.5	484.0	140.0	0.0
BLANARE	1052.9	50.1	33.4	47.0	98.0	43,0	139.0	189.3	37.6	294.3	119.0	6.0
BETRICT OF COLUMBIA	1,8	0.8	0.0	8.0	0.0	, 0.0	0.0	0.0	0.0	0.0	6,0	0.0
POUTOV	•.•	•.•	0.0	8.0	0.0	0.0	0.6	0,0-	0.0	0.0	. 0.0	0.6
LORGIA	12804.9	276.7	884.3	1224.9	1503.2	<b>431.8</b>	445,3	2873.1	642,1	4239.6	0.0	0.0
MAII.	534.6	25.6	32.1	39.7	0.0	8,4	0.0	147.4	26.3	260.3	0.0	
DANG	1001.7	187.6	20,7	77.0	144.8	14.1	10.3	130.8	36.0	384.7	52.9	0.0
LLINOIS	13333.5	663.4	564.4	1:61.1	495.5	1100,0	0.0	3529.1	692.5	4186.0	852.3	0.0
MOTANA	3507,2	361.7	149,1	279.7	667.0	100.4	0.0	435.7	144.9	1205.9	236.6	0.0
) VÀ	2142 2	*** -						*		-		
	2149.9 1427.6	. 305.5 219.9	127.0	349.1	344.1 283.4	94.8	0.2	263,8	118.2	515.1	22.1	0.0
NTUCKY	3919.2			152.5	555.1	20.8	57.8	134.9	15.4	446.1	33.8	0.0
WISIANA	4582.6	311.4 362.6	153.4 119.9	436.5	513.5	72.9	79,4	752.1	55.1	1515.5	290.3	0.0
INE.	1623.5	46.0	44.0	550.5	144.0	41.0	312.7	1316.2 -255.6	99.1	1329.6	39.0 89.0	0.0
,				*		-	4.0	.E33+n	-010	*****	07.V	V. 0
MATVHO	3570.6	**.6	110.0	255.1	693,4	-53,4	0.0	980; 3	158,6	755.5	471.9	0:0
ABBACHUBETTB	6936.0	156.0	219.0	538.0	493.0	121.0	798.0	1817.0	290.0	2504.0	0.0	0.0
ichiban'	5477,4	177.3	200.5	810.5	540.9	229.9	0.9	900.7	572.3	1082.5	496.7	0.0
MESOTA	5542.3	532.0	475.4	744.5	30.0	484.7	9.0	501.3	492.3	2093.2	0.0	0.0
1001861PPI	3545,9	325.9	134.1	265.8	534.9	67.3	261.9	278.4	143.3	1330.1	0.0	102.2
. I RUGBE	3134.0	30.0	297.0	370.0	586.0	92.0	0.0	408.0	0.0	1003.0	0.0	0.0
ORASKA	1.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LVADA	721.7	34.4	27.5	35.1	75.3	10.5	13.5	194.2	50.5	204.7	75.9	0.0
N HAMPSHIRE	1022.5	52.0	19.5	68.4	187.4	22.7	229.4	214.5	0.0	184.7	43.1	-0.0
EN JERBEY	7510,5	52.3	107.3	159.6	1457.4	41.0	2274.6	2183.9	90.0	1092.3	0.0	0.0
IN MEXICO		• • •		<u> </u>				-				
EN YORK	805.1	76.4	42.7	24.4	289.5	50.8	78.0	90.0	13.5	155.4	7.6	3.0
MTH CAROLINA		0.0	0.0	0.0	758.0	0.0	2.0	0.0	6.0	0.0	0.0	0.0
MIN DAKOTA	5067.0 875.0	429.0 156.5	205.0	143.0	130.2	134.0 17.9	138.0	314.0	0.0	1402.0	1454.0	0.0
410	11899.0	724.0	766.3	676.6	1205.7	425.1	0.0	107.0	100.5	190.0 3146.0	55.6 404.0	2925.3
	•			0.000			•••				~~~	
LAHOMA	3444.0	513.0	94.0	307.0	345.0	63.0	●.0`	-944.0	390.0	667.0	167.0	0.0
ROOM	2433.0	121.0	41.0	21.0	420.0	26.0	735.0	412.C	13.0	377.0	67.0	0.0
MOAFANIV	7730.9	345.5	201.9	753.4	757,0	250.1-	34.7.	2205.7	796.7	2297.8	0.0	0.0-
IODE, ISLAND	966.0	7.0	18.0	•2.0	142.0	25.0	500.0	103.0	47.0	196.0		. 0.0
WTH CAROLINA	3450.	179.5	113.1	146.7	357.7	57.4	<b>43.4</b>	709.5	230.6	908.4	1184.1	0.0
WTH DAKOTA	347.2	71.9	24.4	3.6	149.8	7.4	0.0	26.0	0.0	56.6	0.0	0.0
MME DEE	7,1	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XAB	13574.0	1631.7	499.0	1134.9	2424.5	773.5	264.0	1766.3	597.6	4062.8	279.7	0.0
AM	4557.9	145.3	247.0	135.1	1061.0	140.3	309.1	551.2	55.8	1126.1	186.4	0.0
RHONT	414,9	45.3	9,4	13.7	119,7	18,8	0.0	67.0	0.0	140.2	0.0	0.0
										_		-
ROINIA	•.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	. 0.0	0.0	0.0	0.0
ABMINGTON	4281.9	325.4	287.8	385.0	515.4	300.9	42,4	418.8	227.0	1216.1	42.4	0.0
ST VIRBINIA STONBIN	1711.0	111.3	59.3	97.8	224.4	57.0	0.0	503.0	36.9	505.0	117.2	0.0
ONING	1734.0 511.0	64.8 34.4	100.1	277.6	153.0 99.8	16.4	0.0 135.8	524.3 136.0	354.6	179.0 56.4	0.0	0.0.
•	•				•				1.0	-	21.4	0.0
TOTAL U.S.	102411.8	11507.1	8852.0	15145.0	23588.0	6751.3	9580.7	36620.6	8505.3	51417.1	7336.6	3107.5
ierican, banda	41.4	0.5	1.2	4.0	••0	0.0	5.5	12.0	1.3	11.3	0.0	0.0
MTHERN HARIANAS	17.4	3.1	0.0	0.0	5.3	0.0	.0.0	1.5	0.0	.0	0.0	0.0
IAN BICO	. 01.2	1.0	2.0	0.0	10.5	.0.0	16.5	13.7.	6.7	20.0	5.0	0.0
KRTU RICO IUST TERRITORY	2585.5	119.0	/ 79.0	77.5	<b>681.</b> 0	25.5	545.0	375.5	94.0	589.0	0.0	0.0
ARI IFWATIONA	117.3	16.8	0.0	1,0	24.8	1.7	0.0	10.1	0.0	65.9	0.0	0.0
OUTLYING AREAS	2043,2	146.4	82.0	45.5	733.6	27.2	546.4	412.5	102.0	691.2	5.0	0.0
OUTLYING AREAS		11647.4	8934.0		24321.0		10147,5			52108.4	7341.6	3107.5

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VICATIONAL EDUCATION DATA SYSTEM.



TABLE 6.3 -- TEACHERS AND STAFF CUNDUPLICATED), " JRUGHAM AREA AND MY STATE UR DUTLYING AREAS

					CONR.	UCCUP.				TRADE			FRU6/	
1474 OR DUTLYING AREA		ABRI- CULTURE	DISTRI- BUTION	HEAL7H	HMMKE	#OME ECON	THE.	OFFICE OCCUP.	7ECH- MICAL	INDUS	UTHER HEC	PRUG/ SUPPURT	SUPER- VISURY	SPEC!
· · · · · · · · · · · · · · · · · · ·	******	6000000			******	••••••							••••••	•••••
AL'AMA	4,209	450	164	360	350	134	34	715	100	1,563	50	34	40	
.A8Kã.	1,898	18	57	58	7.	59	42	290	54	325	. 24	<b>5</b> 4	47	
1 SOMA	5,119	583	603	352	458	266.	159	121	272	1,558	327	~	7,	
KANSAS	2,540	292	70	355	462	39	42	327	- 0	620	187	76	73	
LIFORNIA	41,319	1,481	3,376	3,024	3,380	1,269	2,027	9,313	2,660	1,086	•	2,843	2,920	
N.DRADO	4,618	166	356	384	3ÅD		*				_			
MMECTICUT	4,798	62	187	140		555		1,117	558	1,023		580	144	
LAHARE	1,261	54	34	149	766	35 · 43	1,323	1,188	15	736	168	154	105	
STRICT OF COLUMBIA	616	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	. 19	21	124	• • • • • • • • • • • • • • • • • • • •	137	281	43	355	127	131	40	
00194	19,612		1,580	7,867	976	1,431	1,456	235 4,205	1,300	110 3/808	1,491	12 651	13 373	
ORGIA .							-		7.		-			
WAZZ	** 181	310	431	606	1,171	313	518	1,926	217	5,353	0	727	499	
ANO.	1,451	32	49	34	157	16	187	260	35	483	Ğ	160	34	
LINCIS	1,271 22,586	117	66-	71	195	17	40	252	55	365	64	51	27	
DIANA	4,418	956 311	1,483	1,680 512.	640 690	1,617	•	5,348 572	1,176	5,437	1,111	1,683	1,515	
					•	**		3/6	550	1,205	281	178	198	
WA .	3,064	470	210	436	417	84	i	335	184	672	30	212	16	
HAAB	1,824	. 234	72	193	339	20	72	. 175	55	491.	34	93	69	
ntucky UIBIAMA	5,895	319	196	316	711	134	71	819	· 31	+2+	. 997	344	205	
ime Ime	4,374	255	155	251	.003	. 77	-353	1.5.5	52	875	30	171	550	
erre.	2,312	48	52	342	148	.46	•	348	114	184	89	76	45	
RYLAHD	6,751	149	339	. 485	1,140	60	٥	2,153	503.	1,311	494	117	- 0	
BBACHUSE778	-18,437	184	274	660	-574	149	873	2,141	409	3,074	7.0	964	1,135	
H16AN	18,698	245	577	1+134	426	295	0	1,890:	1,091	2,514	610	975	439	
HE 807A	10,481	854	748	849	1,048	602	ò	1,428	544	3,840		117	451	
181 4 6 1 PP I	4,192	321	-170	243	567	100.	275	439	129	1,254	Š	349	135	
BOURI	75818	486	58+	623	837	192		1,850	0	1,459	0	4 , 140	344	
MASKA.	1,510	.194	184	118	264	31	-0	305	· 0	419	34	1.327	500	
VADA	1,203	58	85	56	85	ži	Žì	310	110	. 134	102	56	15 15	
n Hampshire	1,132	68	23	73	-146	25	200	198	110	326 199	56	92	58	
4>JERBÉY^	7,463	53	166	163	1,501	äí	2,284	2,212	96	1,097	70	Y.	254	
MEXICO	1.177	49	-58	33	299.									
H YORK	27.031	623	1,235	1,994		30	78	202	43	247	58	55	16	
RTH CAROLINA	8,795	59¢	447	605	2,457 759	848	4,295	8,318	1,592	4,985		567-	\$17	
RTH DAKOTA	1, 137	163	56.	.63	- 230	332 26	160	`743 187	249	2,516	2, 125	162	103	
10-	29,252	457	1,753	1,411	2,207	667	• 3	2,364	-62 279	190	404	17 544	10 827	12.
AMOMA				,			•	-,		-, * * * *	474	,44	-4/	. 4 /
LAHUMA LBON	4,895	534	. **	477	395	89.	. 0	1,555	539	705	167	288	341	
MBYLYANIA	e, 686	278	417	.501	753	140	860	1.037	210	1,505	.366	545	247	
DE ISLAND	15,326	615	463	1,075	1,365	546	50	4,262	1,548	4,058	. 0	587	907	
ITH CAROLINA		- 12	24	44	157	25	317	530-	•7	251	135	45	50	
	5,122	- 580	-153	192	448	62	108-	889	187	1,051	1,631	123	78	
J7H DAKO7A	734	183	40	65	181	32	- <b>:</b> 0	73	0	207	0	13	20	
MEBBEE	7,416	278	324	455	636	213	358	1,102	422	2,294	192	761	307	
AB 1	18,848	1,661	696	1,743	2,440	792	298	2,444	1,046	5,607	718	482	346	
M,	2,777	118	107	171	353	43	106	573	32	954	46	184	40	
thon7	634	49	-11	14	140	24	•	130	0	183	0	48	35	
REINIA	9,269	440	410	655	900	۵.	1,100	2,994	٥	2,449	0	40	81-	
HINS70H	/1/124	492	877	101	1,059	1,219	130	1,925	-39	3,179				
Y VIRBINIA	2,052	114	40	102	257	57	130	531	- 38	505	167	344	241 104	
COMBIN	11,762	552	612	719	1.821	379	1,100	2,553	559	2,264	10/	117 197	875	
MING	562	37	50	***	109	~ i	149	150	337	. 61	29	17/	•/3	
707AL-U.S.	368,897	17,856	20,132	26,721	34,309	12,967	19,440	74,493	17,550	87,015	12,570	16,709	14,942	12,
IRICAN-BAMGA		_		_		_	_				4.			
THERN MARIAHAS	44 91	0	1	•	•	•	5	15	1	11	0	•	•	
M-	23 127	7	•	0	.:	0	.0		.0	10			1	
RTU RICO .	.2,640	112	79	77	18	96	18	20	10	. 33	- 5	11	9	
187 7ERKITORY	144	11 <b>9</b> 21	7	77	681 30	25 , ¢	545	375 10	*4	589 72	•	40	16	
DUTLYING AREAS	2,978	145	82	82	741	27	568	419	105	715	5	1 52	37	
		•-•			,	• •		4.7	,	713	,	26	31	

SOURCES U.S. DEPARTMENT OF EDUCATION, MATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.

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Table 6.4
Distribution of full-time vocational staff in institutions with five or more vocational programs, by sex and racial/ethnic group: Fall 1979

				•	Racia	al/ethnic group		
Type of staff	Total	Male.	Sex Female	Am. Ind./ Alask. Nat.	Asian Am./	Black, not Hispanic	Hispanic	White, not
		<u> </u>	· · · · · · · · · · · · · · · · · · ·		rcentage distril			
All staff	100.0	60.6°	39.4	0.3	0.8 ,	8.3	1.8	88.8
Instructional	100.0	60.2	39.8	0.3	0.8-	8.1	1.6	89.2
Agriculture	100.0	94.8	5.2	0.4	0.6	6.2	0.9	00.0
Distribution	100.0	72.6	27.4	0.3	-0.5	4.0		92.0
Health	100.0	16.6	83.4	0.3	0.9	. 6.0	1.4	93.8
Occ. home economics	100.0	10.1	89.9	0.2	0.7	12.3	1.2	91.6
Office occupations	100.0	37.4	62.6	0.3	1.1	10.3	1.4	85.4
Technical	100.0	90.8	9.2	0.3	1.1	2.8	1.4 1.5	87.0
Trade and industrial	100.0	91.3	8.7	0.4	0.6	7.0	2.1	94.3
Consumer and homemaking	100.0	2.0	98.0	0.2	0.9	13.4		89.9
Industrial arts	100.0	96.3	3.7	0.3	0.5	10.1	1.4 1.8	84.0 87.3
Program/support	100.0	51.9	48.1	0.6	1.1	11.0	3.6	83.6
Program/supervisory	100.0	80.8	19.2	0.4	0.6	6.7	1.4	90.9

NOTE: Details may not add to totals because of rounding.

SCURCE: United States Department of Education, Offic for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

Table 6.5 Distribution of full-time vocational staff in comprehensive and vocational high schools, by sex and racial/ethnic group: Fail 1979

•				Racial/ethnic group							
Type of staff	Total	Male	ex Female	Am. Ind./ Alask. Nat.	Asian Am./ Pac. Isl.	Black, not Hispanic	Hispanic	White, no Hispanic			
	-	<del></del>	<del></del>	Pore	entage distrib			,			
				rere	centage distric	oution					
All staff	100.0	54.7	45.3	0.3	0.7	11.4	1.7	85.9			
Instructional	100.0	53.5	46-5	0.3	0.7	11.3	1.7	86.0,			
Agriculture	100.0	95.4	4.6	0.4	0.6	8.2	1.1	89.7			
Distribution	100.0	70.1	29.9	-0.2	0.4	6.5	1.4	91.5			
Health	100.0	10,8	89.2	0.1	0.3	9.7	1.5	88.4			
Occ. home economics	.100.0	6.4	93.6	0،3	0.7	15.2	1.4	82.4			
Office occupations	100 <b>.</b> 0	27.3	72.7	0.3	1.0	13.1	1.4	84.2			
Technical	100.0	87.6	12.4	0.4	2,0	5.1	2.0	90.5			
Trade and industrial	100.0	91.0	9.0	0.3	0.6	10.0	2.4	86.7			
Consumer and homemaking	100.0	3.1	96.9	0.2	0.9	14.0	1.4	83.5			
Industrial arts	100.0	97 <b>.</b> I	2.9	0.3	0.5	10.3	1.8	87.1			
Program/support	100.0	54.5	45.5	0.3	0.4	12.4	2.3	84.6			
Program/supervisory	100.0	80.7	19.3	0.3	0.1	9.5	1.5	88.6			

NOTE: Numbers ar based on full-time staff at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

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Table 6.6
Distribution of full-time vocational staff in area vocational centers (secondary), by sex and racial/ethnic group: Fall 1979

			. •	Racial/ethnic group						
Type of staff	Total	Male	Sex Female	Am. Ind./ Alask. Nat.	Asian Am./ Pac. Isl.	Black, not Hispanic	Hispanic	White, not Hispanic		
			, ,,	Perc	entage distrib	ution				
All staff	100.0	66.7	33.3	0.3	0.3	5.7	1.0	92.7		
înstructional	100.0	67.2	32.8	0.3	0.2	5.4	0.9	93.2		
Agriculture	100.0	89.1	10.9	0.2	.0.4	3.1	0.3	96.0		
Distribution	100.0	59.3	40.7	0.6	0.1	1.9	1.0	96.4		
Health	100.0	3.9	96.1	0.4	0.5	5.7	0.5	92.9		
Occ. home economics	100.0	17:1	82.9	0.1	0.1	7.8	0.6	91.4		
Office occupations	100.0	27:4	72.6	-0.5	03	8.6	1.4	89.2		
<b>Technical</b>	100.0	88.5	11.5	-0.1	0.2	2.6	1.4	95.7		
Trade and industrial	100.0	89.7	10.3	0.3	0.2	4.9	0.9	93.7		
Consumer and homemaking	100.0	14.2	85.8	0.0	0.6	9.6	0.6	89.2		
Industrial arts	100.0	86.9	13.1	0.0	0.0	5.8	0.0	94.2		
Program/support	100.0	51.9	48.1	0.5	0.5	8.4	1.7	88.9		
Program/supervisory	100.0	87.7	12.3	0.4	0.3	4.7	0.9	93.7		

NOTE: Numbers are based on full-time staff at institutions with five or more vocational programs only. Details may not add to totals because oi rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

Table 6.7 Distribution of full-time vocational staff in area vocational schools (postsecondary), by sex and racial/ethnic group: Fall 1979

Type of staff		_		Racial/ethnic group				
	Total	Male S	Female	Am. Ind./ Alask. Nat.	Asian Am./ Pac. Isl	Black, not Hispanic	Hispanic	White, not Hispanic
		P = 1	· · · · · · · · · · · · · · · · · · ·	<del></del>				
•	Percentage distribution							
All staff	100.0	<b>68.2</b>	31.8	0.5	0.3	6.8	0.9	91.5
Instructional	100.0	68.1	31.9	0.4	0.3	5.9	0.6	92.8
Agriculture	100.0	92.3	7.7	1.2	. 0.4	0.Ô	0.0	98.4
Distribution	100.0	65.2	34.8	0.0	1.1	1.4	1.3	96.2
Health	100.0	8.7	91.3	0.1	0.3	5.8	0.1	93.7
Occ. home economics	100.0	27.7	72.3	0.0	1.2	13.3	2.4	83.1
Office occupations	100.0	35.7	64.3	0.1	0.1	7.1	0.4	92.3
Technical	100.0	96.8	3.2	0.2	0.4	1.9	0.5	97.0
Trade and industrial	100.0	92.0	8.0	0 _€ .7.	-0.1	7.2	0.8	91.2
Consumer and homemaking	100.0	3.2	96.8	0.0	0.0	16.1	0.0	83.9
Industrial arts	100.0	81.8	18.2	0.0	0.0	18.2	0.0	81.8
Program/support	100.0	57.2	42.8	1.5	0.8	12.4	2.7	82.6
Program/supervisory	100.0	83.8	16.2	0.2	0.2	7.0	0.5	92.1

NOTE: Numbers are based on full-time staff at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.



Table 6.8 Distribution of full-time vocational staff in 2-year institutions of higher education, by sex and racial/ethnic group: Fall 1979

					Racia	1/ethnic group	•	
Type of staff	Total	S Male	Fcmale	Am. Ind./ Alask. Nat.	Asian Am./ Pac. Isl.	Black, not Hispanic	Hispanic	White, not Hispanic
				Perc	entage distrib	ution	·	
All staff	100.0	62.2	37.8	0.4	1.3	4.8	2.3	91.2
Instructional (	100.0	63,1	36.9	0.4	1.2	4.1	1.8	92.5
Àgriculture	100.0	90.7	9.3	0.4	0.6	0.7	1.0	97.3
Distribution	100.0	78.2	21.8	0.3	0.8	1.6	1.3	96.Û
Health	100.0	19.9	80.1	0.3	1.2	5.2	1.4	91.9
Occ. home economics	100.0	17.4	72.6	0.2	1.0 .	6.0	1.9	90.9
Office occupations	100.0	54.1	45.9	0.4	1.4	5 5	1.4	91.3
Technical .	100.0	90.6	9.4	0.4	1.2	2.6	1.5	94.3
Trade and industrial	100,0	91.1	8.∙9-	0.5	1.2	3.6	2.9	91.8
Consumer and homemaking	100,0	16.5	83.5	0.4	1.4	6.3	2.3	89.6
Industrial arts	100.0	79.0	21.0	Ô.Ò-	1.8	8.7	2.7	86.8
Program/support	100.0	47.4	52.6	0.8	2.5	10.6	6.8	79.3
Program/supervisory	100.0	72.3	27.7	0.6	1.2	4.8	1.7	91.7

NOTE: Numbers are based on full-time staff at institutions with five or more vocational programs only. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, Office for Civil Rights, Vocational Education Civil Rights Survey, preliminary data.

Table 6.9

Distribution of staff in noncollegiate postsecondary schools with occupational programs, by sex, staff function, and by type and control of school: 1978

Type and control of school	Tota	1. staff		ructional		strative/ gerial	Clerical/ nonprofessional	
or school	Male .	Female	Male	Female	Male	Female	Male	Female
		JAN	Perc	entage dist	ribution			<del></del>
			3	Public			-	
Total .	<b>54.</b> 0	46.0:	58.2	41.8	69.2	30.8	20.6	79.4
Vocational/technical	56.3	43.7	*61.6	38.4	72.7	27.3	20.7	70.0
Technical institute	78.6	21.4	95.6	4.4	89.5	10.5		79.3
Trade	76.1	23.9	100.0	(*)	76.9		19.7	80.3
Hospital	44.9	55.1	48.6	51.4	52.3	23:1	43.7	56.3
Allied health	6.8	93.2	4.5	95.5	28.8	47.7 71.2	12.8	² 87.2
				,	20.0	11.2	1.4	98.6
•				Private	· <del>-</del>			
Tota1	43.8	56.2	46.5	53.5	48.2	51.8	17.8	72.2
Vocational/technical	63.8	36.2	59 <b>.</b> 2	40.8	61.9	38.1	21.3	70 7
Technical institute	77.3	22.7	96.0	4.0	74.3	25.7	30.9	78.7
Business/office	42.2	57.8	46.9	53.1	48.0	52.0	10.3	69.1
Cosmetology/barber	21.1	78.9	20.0	80.0	34.0	66.0	*	89.7
Flight	77.1	22.9	93.0	7.0	67.8	32.2	14.0	86.0
[rade	68.5	31.5	83.8	16.2	65.5	34.5	56.9	43.1
Arts/design	55.8	44.2	65.1	34.9	46.4		26.6	73.4
lospital	14.3	85.7	15.7	84.3	20.4	53.6	22.1	77.9
llied health	29.4	70.6	31.9	68.1	20.4 36.2	79.6.	1.9	98.1
Other	24.6	75.4	25.7	74.3	19.0	63.8	15.4	84.6
-	- · • -	.,	4301	/7.5	13.0	81.0	25.1	74.9

^(*) Less than 0.05 percent.

NOTE: Details may not add to totals because of rounding.

SERIC Full least Provided by ERIC

Table 6.10
Distribution of members of State Advisory Councils on Vocational Education (SACVE) and State-level vocational education staff, by racial/ethnic group and sex: 1978

			Racial/ethnic group									
osition		C		Ind./		in Am./	Blac	k, not			White, not	
	Male.	Sex Female	Male	k, Nat. Female	<u>Pac.</u> Male	Isl.		spanic		panic		panic
			raie		maie	Female	Male	Female	Male	Female	Male	Female
embers of State advisory councils							-	,				_
of vocational education (SACVE)	949	432	14	14	13	9	133	86	32		252	2,5
Percent	68.6	31.3	1.0	1.0	0.9	0.7	9.6	6.2	2.3	11 0.8	757 54.8	312 22.6
tate director	49	1	0	0	1	0	3	0	0	•		
Percent	98.0	2.0	0.0	0.0	2.0	0.0	6.0	0.0	0.0	0 0.0	45 90.0	1 2.0
ex equity coordinator	1	49	0	0	0	. 0-	0	10	0	•	•	
Percent	2.0	98.0	0.0	٥٠٥	0.0	0.0	0.0	20.0	0.0	0 0.0	1 2.0	39 78.0
xecutive director, SACVE	47	3	0	0	1	0	0	1	0	0	46	•
Percent	94.0	6.0	0.0	0.0	2.0	-0.0	0.0	2.0	0.0	0.0	92.0	2 4.0
irector of Agricultural occupations	22	0	0	0	1	0		0	0	0	20	-0
Percent	100.0	0.0	0.0	0.0	4.5	0.0	4.5	0.0	0.0	0.0	90.9	0.0
irector of distributive education	17	1	0	0	1	0	0	0	0	0	16	1
Percent	94.4	5.6	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	88.9	5.6
irector of health occupations	3	13	0	0	0	0	0	1	0	0	3	15
Percent	15.8	84.2	0.0	0.0	0.0	0,0	0.0	5.3	0.0	0.0	15.8	78.9
lrector of home economics	0	24	0	·0	0	1	0	3	0	0	0	20
Percent	0.0	100.0	0.0	0.0	0.0	4.2	0.0	12.5	0.0	0.0	0.0	83.3
irector of business and office occupations	19	6	0	O	0	0	0	2	1	0	18	4
Percent	76.0	24.0	0.0	0.0	0.0	0.0	0.0	8.0	4.0	0.0	72.0	16.0
rector of technical occupations	9	0	0	0	0	0	0	0	0	0	9	0
Percent	100.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	100.0	0.0
rector of trade and industrial occupations	30-	0	0	0	1	0	0	0	1	0	28	0
Percent	100.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	3,3	0.0	93.3	0.0

SOURCE: Laurie R. Harrison, et. al. Primary Data of the Vocational Education Equity Study, American Institutes for Research, for U.S. Department of Health, Education, and Welfare, U.S. Office of Education, April 1979.



# Allocations and Expenditures for Vocational Education

The increasing demand for vocational education is reflected in the steady rise in total expenditures as well as enrollments in vocational education programs. Since fiscal year 1972, total expenditures on programs covered by the Vocational Education Act (VEA) have risen from \$2.661 billion to \$6.657 billion in fiscal year 1979 (chart 7.1 and table 7.1). The growth in Federal expenditures has been surpassed by the growth in State and local expenditures. Federal expenditures rose about 41 percent from 1972 to 1979. In contrast, State and local expenditures rose about 173 percent.

The Federal share of total expenditures, which decreased steadily between 1972 and 1978, increased slightly in 1979. Federal expenditures constituted 17.5 percent of the total in 1972, while in 1978 they were just 8.8 percent of the total. In 1979, they rose to 9.9 percent of the total.

When the expenditure figures are converted to amounts expressed in constant 1978 dollars, the patterns of change in both total expenditures and Federal support are altered. The increases in total expenditures are modified, though still evident, with a constant dollar increase of over 51 percent between 1972 and 1979 (chart 7.2). This expenditure increase may be compared to an enrollment increase of 96.4 percent during the same period. Federal support, considered now in constant dollars, actually decreased as a share of the total. Federal expenditures provided 17.5 percent of the total in fiscal year 1972 and 9.9 percent in fiscal year 1979.

The Federal financial support of vocational education is made available to State Boards for Vocational Education under provisions of the Vocational Education Act, as amended. The Act provides for categorical funding according to five major legislative sections (105, 120, 130, 140, and 150). From allocations to the States under Sections 120 and 130, funds are set aside for National Priority Programs as specified under Section 110. These program funds are targeted for the handicapped, disadvantaged, limited-English-speaking, and for those presently being served in postsecondary and adult vocational education.

The five sections through which funds are provided are:

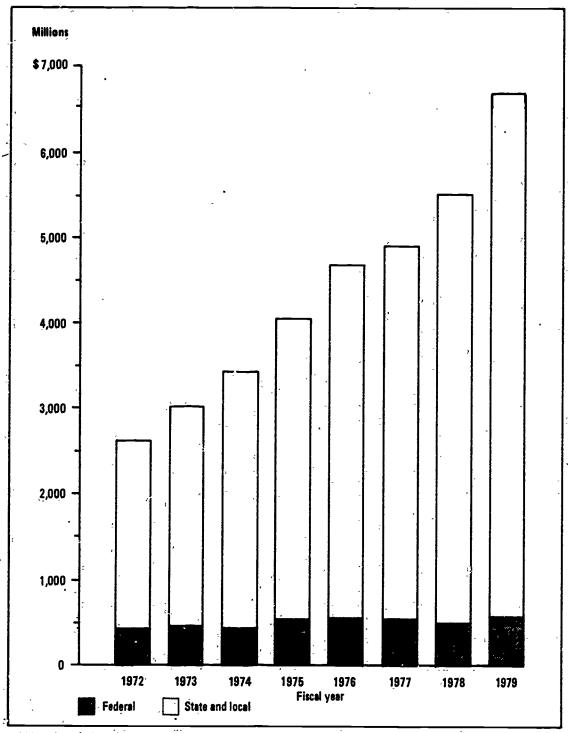
Section 105. State and Local Advisory Councils. This section provides for support of State Advisory Councils which receive an annual grant of not less than \$75,000 nor more than \$200,000 for carrying out the purposes specified under the Act. Expenditures under this section are not included in reported total expenditures for vocational education.

Section 120. Basic Grants. Basic grants to the States may be used for several purposes including: vocational education programs, work-study programs, cooperative vocational education programs, energy education, construction of area vocational facilities, support of full-time sex equity personnel necessary to assist the State Board, stipends to vocational education students, placement services, industrial arts programs, support services to women who enter instructional programs traditionally oriented toward preparation of males for employment, day care services, vocational education programs for displaced homemakers, construction of and operation of residential vocational schools, and State and local administration.

Section 130. Program Improvements and Supportive Services. Allocations for program improvements may be used for the following purposes: research programs, exemplary and innovative programs, curriculum development, guidance and counseling services, pre-service and inservice training for teachers, grants to overcome sex bias, as well as State and local administration.



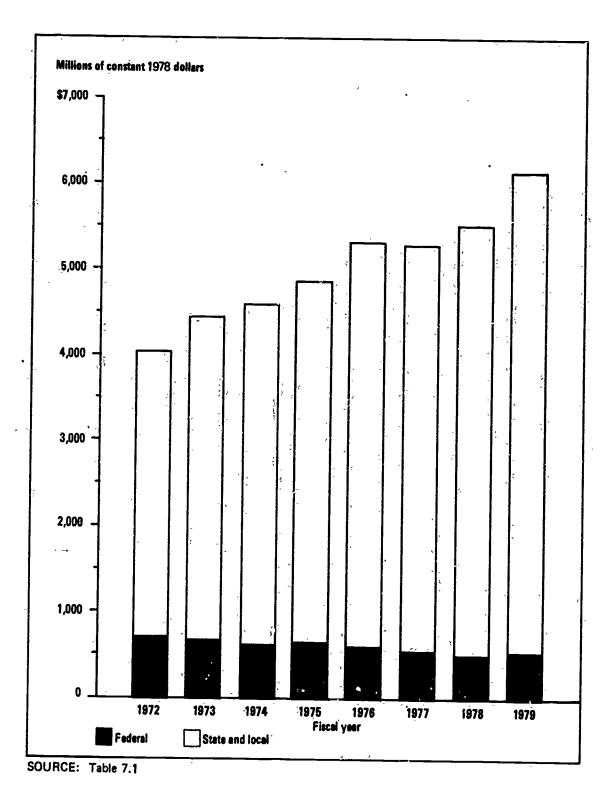
Chart 7.1 Expenditures for Vocational Education, by Source of Funds



SOURCE: Table 7.1



Chart 7.2 Expenditures for Vocational Education, by Source of Funds





Section 140. Special Programs for the Disadvantaged. These funds are allocated for the purpose of assisting the States in conducting special programs for the disadvantaged. The funds are to be spent in areas with high concentrations of youth unemployment and school dropouts and may be used to pay the full cost of vocational education for disadvantaged persons.

Section 150. Consumer and Homemaking Education. These grants are made to the States to assist them in conducting consumer and homemaking education programs. In addition, at least one-third of the Federal funds under this Section are specifically to be used in economically depressed areas or areas with high rates of unemployment, for programs designed to assist consumers and to help improve home environments and the quality of family life.

During the period from 1970 to 1979, public expenditures for vocational education increased more rapidly than total public education expenditures. Reported expenditures for programs included in State plans for vocational education increased 262 percent; in contrast total public expenditures rose 119 percent (table 7.2). While vocational expenditures almost doubled as a percent of total education expenditures during this period, vocational education expenditures are only 5.3 percent of the total.

Expenditures for vocational education under the Vocational Education Act totaled \$6.657 billion in fiscal year 1979, a 17.4 percent increase over the fiscal year 1978 total of \$5.674 billion (table 7.3). These total expenditures include the sum of Federal and non-Federal expenditures in four of the five legislative categories of the VEA (excluded are expenditures under Section 105, State Advisory Councils). Section 120 accounts for 87 percent of the total amount expended compared with 5 percent devoted to Section 130, one-half percent to Section 140, and 7 percent to Section 150. Total expenditures for all sections plus expenditures for State Advisory Councils are shown by State in table 7.4.

Several regulatory provisions in the VEA impose spending requirements on State and local governments. These requirements include the matching of at least a portion of Federal funds in some cases and the set-aside of portions of Federal funds for specific types of programs in other cases. However, actual State and local expenditures frequently exceed the minimal requirements of the regulations, so that yearly changes in Federal and combined State and local shares occur. The Federal proportion of total expenditures increased from fiscal year 1978 to riscal year 1979 for all legislative categories. The largest of the percent increases was reported for Section 130 expenditures. The Federal share rose from 27.1 to 31.4 percent of the Section total, the result of a dollar increase from \$64.6 million to \$120.7 million (table 7.3). Expenditures for all sections combined, by State, including outlays and unliquidated obligations followed by expenditures for each of the legislative sections by State, are presented in table 7.5 through 7.9. Federal expenditures for fiscal year 1978 are shown by State in table 7.10

Total Federal allocations for all sections combined increased by 3.8 percent from \$577 million to \$599 million between fiscal year 1978 and fiscal year 1979 (table 7.11). Allocations for Basic Grants (Section 120) and Program Improvements and Supportive Services (Section 130) increased (over 4 percent growth for both), while allocations for Special Pi ograms for the Disadvantaged (Section 140) and Consumer and Homemaking Education (Section 150) remained virtually unchanged. Allocations to the States from these appropriations are based on age distribution and per capita income. Allocations for each of the legislative sections are shown by State for fiscal year 1979 in table 7.12 and for fiscal year 1978 in table 7.13.

Expenditures of Federal funds during a given year may exceed Federal allocations for that year. For example, while total Federal allocations increased by 3.8 percent from fiscal year 1978 to fiscal year 1979, spending of Federal funds for that same time period increased 31.9 percent (table 7.11). This phenomenon is



due to provisions in the legislation, which permit unobligated allocations and/or unliquidated obligations from one year to be carried foward to the next year. Comparisons of allocations with expenditures for the States, presented earlier, show that in 22 States, expenditures of Federal funds for fiscal year 1979 exceeded the Federal allocations for that year.

The differences between the year the funds were allocated and the year in which they were spent are increased by the method some States use in reporting unliquidated obligations. The period in which funds were reported as expended may not necessarily coincide with the period in which the funds were used. For example, funds committed in one year but not spent may not be reported as expenditures until the year in which the obligation is removed. In these cases the relation between program activities and funding is obscured. Therefore, specific comparisons should not be made between the reported allocations or expenditures for a given year and participation in particular programs.

The legislative and regulatory provisions mentioned earlier relate to programs for groups with special needs. Following are the vocational education program allocations set aside for the year 1978-79:

10 percent of Section 120 and 130 allocations are for the handicapped,

20 percent of Section 120 and 130 allocations are for the disadvantaged and for those of limited English proficiency,

The regulations implementing these provisions for the school year 1978-79 allowed State and local matching funds used under Section 110(a) and 110(b) to pay "excess costs" of educating students in special needs populations. Because these regulations are different from those in effect in earlier years, no comparisons of either students served or authorizations and expenditures can be made between 1978-79 and earlier years. It is possible only to examine total outlays for 1978-79, which were allocated in fiscal years 1978 and 1979 (table 7.14). Outlays totaled \$2.75 billion to provide programs for handicapped, disadvantaged, limited English proficiency, and adult and postsecondary students during 1978-79. The total outlays by State for each of the special population groups, from Federal and non-Federal sources, are presented in tables 7.15 through 7.18.

Considerable detail on outlays for 1978-79 is available for each of the five major legislative sections. These data, supplied through VEDS, are included here for reference. Outlays for Section 120 programs are summarized by source of funds and authorization year in table 7.19. Outlays by State for each of the Section 120 programs are shown, by source, in tables 7.20 through 7.33. Outlays for Section 130 programs are summarized in similar fashion in table 7.34, with program details by State in tables 7.35 through 7.43. Outlays for Section 140 programs are shown in tables 7.44 and 7.45 and for Section 150 programs in tables 7.46 through 7.50.



<u>~</u>

Table 7.1
Total expenditures for vocational education (VEA), by source of funds, in current and constant 1978 dollars: Fiscal years 1972-1979

Expénditures	2070		<u></u>	Fisca	al year	•		
· · · · · · · · · · · · · · · · · · ·	1972	1973	1974	1975	1976	1977	1978	1979 ~
				Thousands of o	current dollars			
Total	\$2,660,759	\$3,033,658	\$3,433,820	\$4,037,277	\$4,713,577	\$4,962,555	\$5,673,527	\$6,657,208
Federal .	466,030	482,391	468,197	536,140	543,211	533,611	499,106	658,120
State/local	2,194,729	2,551,267	2,965,623	3,501,137	4,170,366	4,428,945	5,174,421	5,999,090
			Thọ	usands of cons	tant 1978 dol1	ars		
Total	\$4,049,675	\$4,438,242	\$4,610,933	\$4,881,875	\$5,322,100	\$5,296,039	\$5,673,527	\$6,149,929
'ederal	709,298	705,738	628,695	648,300	613,340	569,469	499,106	607,971
State/local	3,340,377/	3,732,504	3,982,238	4,233,575	4,708,760	4,726,570	5,174,421	5,541,959

NOTES: Excludes expenditures for State Advisory Councils. Details may not add to totals because of rounding.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Status of Vocational Education Data System.

Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Status of Vocational Education Data System.

Table 7.2

Total reported expenditures for public vocational education (VEA), compared to total estimated expenditures for all public education: Fiscal years 1970, 1976, 1978, 1979

Fiscal year	Total reported public expenditures vocational education*	Total public education expenditures** (estimated)	Vocational expenditures as percent of total education expenditures	
- W L		Thousands of dollars	·	
1970-	\$ 1,841,846	\$ 56,800,000	3.24	
1972	2,660,759	67,400,000	3.95	
1976	4,713,577	100,200,000	4.70	
1978	5,673,527	115,900,000	4.90	
1979	6,657,208	124,400,000	5,35	

^{*}Reflects only expenditures for programs included in State plan for vocational education; excludes expenditures for State Advisory Councils.

SOURCES: United States Department of Education, National Center for Education Statistics, Vocational Education Data System, preliminary data; United States Department of Health, Education, and Welfare, Division of Vocational and Technical Education, selected statistical tables.



^{**}Expenditures include money received from grants and loans and exclude only the funds used for reducing debt. Institutional expenditures derived directly from the grants of Federal, State and local governments are included. Expenditures from a variety of private sources, such as tuition and fees, private gifts and grants, and endowment earnings, are included. Some governmental grants to individuals appear in institutional accounts as receipts from students for tuition, fees, and auxiliary services. These grants, as well as loans that must be repaid, are also included. Other grants and loans to individuals may be spent for board and room "off campus" and are not counted as institutional receipts from any source.

Total Federal and State/local expenditures on vocational education (VEA), by legislative section: Fiscal years 1978 and 1979

Table. 7.3

Page - 144		<b>\</b> "	Sec	tion	-
Expenditures	Total	120	130	140	150
		Amount, in the	nousands of do	llars	
Fiscal year 1979					
Total	\$6,657,208	\$5,754,555	\$384,235	\$33,189	\$485,225
Federal	658,120	470,358	120,792	20, 897	46,075
State/local	5,999,090	5,284,192	263,446	12,293	439,156
Federal as percent of total	9.9	8.2	31.4	63.0	9.5
Fiscal year 1978					
Total	\$5,673,527	<u></u> \$4,977,391	\$238,902	\$28,335	\$428,899
Federal	499,106	379,555	64,664	17,133	37,754-
State/local	5,174,421	4,597,836	174,238	11,202	391,145
rederal as percent of total	8.8	7.6	27.1	60.5	8.8
		Percent change from FY 19	e in expenditu 78 to FY 1979	ires	
Total	17.4	15.6	60.8	17.1	13.1
'ederal	31.9	23.9	86.8	22.0	22.0
tate/local	15.9	14.9	51.2	9.7	12.3

NOTES: Excludes expenditures for State Advisory Councils provided by Sec. 105.

Détails may not add to totals because of rounding.

RCE: U.S. Department of Education, National Center for Education Statistics, Vocational cation Data System; U.S. Department of Health, Education, and Welfare, Division of Vocational Technical Education, Annual Report, 1978.

TABLE 7.8 - PEDERAL AND STATE/LOCAL CYCA) EXPENDITURES, BY LESISLATIVE SECTION, AND SY STATE OR DUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDYER AND UNLIQUIDATED DOLIGATIONS)

STATE OR GUTLYING AREA	1074L	8 A S I C Grants (8EC 128)	PRUGRAN IMPROVENENT (SEC 138)	DIBADVANTAGED (BEC 148)	CONSUMER ÁND MOMENARING (SEC 158)	87A7E ADVISOR COUNCIL (SEC 165
*******************************	*******	***************	*****		~~~~~~~~~	<del>10000000000</del>
ALABAMA	73,920,055	61,379;242	5,330,023	462,499	6,729,668	77,023
ALA <b>S</b> TA	13,154,131	12,234,031	329,035	69,247	427,426	73,572
lrizona Arkanbab	40,622,425	33,446,557	2,002,499	109,741	4,074,317	55,291
CALIFORNIA	30,362,196 967,199,691	20,371,635 056,003,093	4,885,142 52, <b>5</b> 46, <b>9</b> 68	155,637 3,164,646	4,955,497 74,355,316	74,279 248,676
COLORADO	74,171,134	64,786,847	3,472,993	330,014	5,103,474	71,100
DHMECTICUT	67,357,661	57,922,221	2,429,666	453,419	6,466,164	04,107
PELAHARE PISTRICT OF COLUMBIA	34,764,677 6,108,626	31,667,637	1,304,236	116,294	1,050,700	
LORIDA	412,055,451	5,256,676 367,576,588	344,085 17,723,479	62,165° 5,863,972	440,921 20,61 <b>0,699</b>	63,779 66,713
CORSIA	127,526,613	105,525,110	4,359,799	374/126	12,267,576	
MANAII	14,017,022	12,347,124	1,070,235	71,950	1,241,003	#1,416
DANO LLINOIS	17,570,179	14,100,465	1,236,599 .	137,999	2,031,217	61,699
HOIANA	359,020,401 00,470,066	330,705,936 -60,720,413	4,416,667 3,967,347	762,192 1,469,366	:4,055,903 6,232,904	259,703 99,956
LUMA	70,137,132	62,762,337	1,047,429	343,367	5,100,979	
KANSAS	42,734,623	35,314,710	2,310,970	210,052	4,012,946	75,000 67,335
ENTUCKY OUIBIANA	79,075,072	66,962,121 46,629,163	2,692,471	333,535	0,998,139	67,686
AIME	60,023,673 23,954,739	20,912,045	16,322,345 735,267	1,926,366 191,127	7,650,337 1,656,163	101,366. 66,115
IARYLANO	110,445,261	95,952,467	5,516,786	504, 826	10,557,009	114,253
1A88ACHU8E778	265,370,005	237,294,246	7,648,523	592,194	15,739,765	103,234
ICHIGAN IINNE <b>S</b> UTA	262,273,750	203,700,695	37,605,646	919,705	19,773,373	194,337
1881661PPI	114,236,611 53,2 <b>52,3</b> 44	.90,370,769 39,415,710	6,792,386 6,941,217	365,000 403,792	6,689,925 5,347,355	67,651 66,262
Issouri	¥1,585,269	62,692,994	20,327,007	657,655	0,412,493	90,910
ONTANA	73,922	00,010,110	0	***************************************	, , , , ,	73,922
iebraska Ievada	25,605,364	21,020,477	1,677,406	130,720	2,772,045	76,636
EN HAMPSHIRE	13,531,060 13,007,434	12,001,612 10,254,376	275,644 742,576	95,511 100,326	(1,679,669 G,732,544	79,224: 57,666
EN JERBEY	178,676,688	165,320,567	6,263,997	-1,126,704	5,077,505	97,455
EN NEXICO	30,333,009	-25,910,784	933,720	139,054	3,246,346	75,765
EN YORK ORTH CAROLINA	500,412,760	567,159,156	7,454,320	606,641	12,632,646	-150,595
ORTH DAKOTA	200,063,614 16,663,533	103,425,664 13,005,574	10,305,168 641,486	, 02,960 , 238,939	13,655,971 1,864,494	137,672 68,999
MIO	364,227,700	291,462,716	iõ, 652, 398	1,510,546	52,427,274	177,054
MLAHOMA	70,406,836	74,293,220	5,210,003	269,474	5,621,196	64,143
MESON ENNSYLVANIA	24,216,263	21,173,697	1,040,057	390,460	722,473	74,548
HOOE ISLAND	303,594,093 20,740,597	277,636,663 20,501,234	10,352,676 1,360,246	1,437,415 1 <b>60,662</b>	4,000,503 2,645,713	79,536 56,546
OUTH CAROLINA	130,193,301	123,546,621	4,448,879	342,543	5,495,666	100,252
OUTH DAKOTA	10,005,172	7,001,470	613,565	12,075	2,233,656	64,224-
EMM <b>ESSEE</b> EXA <b>S</b>	116,142,700	92,664,615	4,933,669	463,700	10,631,600	107,000
7AH	335,179,970 44,640,000	262,617,737 37, <b>95</b> 7,645	37,676,664 2,914,773	947,958 667,975	34,131,405 1,030,456	212,734 66,631
ERHON7	10,930,027	9,101,319	500,101	19,911	1,232,469	76,207
IRGINIA	141,544,101	123,020,022	4,175,203	760,475	13,251,443	100,050
abmingtom Ebt vtrginia	167,799,286	137,763,769	110,012,005	1,154,633	17,909,400	79,421
ISCONSIN	46,952,947 192,074,789	34,360,244 164,426,339	\2,270,221 20,5 <b>0</b> 5,4 <b>0</b> 9	349,945 670,775	3,763,651 6,052,226	137,760
YONING	6,431,339	4,364,660	561,105	145,227	1,279,003	01,264
TÜTAL U.B.	86,617,880,384	5,725,950,699	5370 , 00 <u>1,</u> , 200	\$32,706,207	\$477,397,491	64,764,767
MERICAN SAMDA	000,612	702,931	44;022	6,740	55,500	70,611
WAM	303,090	200,132	4/373	11,021	636	86,736
UERTO RICO RUAT TERRITORY	41,170,500	27,700,200	5,299,730	363,414	7,764,621	50,335
IRGIN ISLANDS	120,905 75,000	i	7.ii53 0	20,617	*, **3	72,110 75,000
OUTLYING AREAS	842,574,271	820,603,343	85,356,176	8461,992	07,029,350	\$303,000
.s. AND OUTLYING AREAS	00,002,374,055	55,754,554,642	5344,237,370	\$33,100,279	\$465,227,249	<b>35,167,767</b>



## TABLE 7.5 -- VOCATIONAL EDUCATION (VEA) EXPENDITURES, RY SOURCE OF FUNDS. AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1976-79 : (SUM OF SECTIONS 128, 138, 148, AND 158) (INCLUSES CARRYOVER AND UNLIQUIDATED OBLIGATIONS)

<del>))                                   </del>		execceccoccoccoccoccoccocc	•		OUTLAYS		UNLIQUI	DATED OUL	GATIONS
STATE OR OUTLYING AREA	TOTAL	HON- FEDERAL	FEDERAL	70741	NON-		70741	NON-	FEDÉRA
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NOMA	IT, IN THOUSAN	•	•••••••	•••••••	•••••••	
LABANA	73,002	40,704	13,056	71,643	48.784	11,057-	1,999		1,99
MARKA	13,041	11,422	1,639	12,774	- 11,422	1,352	207		50
Mizona Mkambar	40,547	34,157	6,410	40,567	34,157	6,010	Ö	ĭ	
AL IFORNIA	30,206 986,951	32,334 713,739	5, <b>95</b> 4 73,012	34,200 704,200	·32, 334 913, 939	5,954		0	• • •
				101/200	413/434	70,349	2,063	•	2,66
OLORADO OMMECTICUT	74,100	44,444	7,420	74,100		7,420	•	•	
ELANARE	67,273 34,765	60,357 . 33,260	6,917 1,497	67,273 <b>34,76</b> 5		4,917	0	3	
ISTRICT OF COLUMBIA	6,105	4,363	1,742	6,025	33,260 4, <b>3</b> 63	1,497		0	
LONIDA	411,975	377,239	34,73	394,962	377,239	17,723	17,013	ï	17,01
CORSIA	-122,527	105,519	17,008	112,963	97 443	45 404			
MMAII	14,730	12.415	5,323	14,150	97,862 12,093	15,101 2,066	7,563 500	7,656 323	1,70
BANG	17,814	14,726	2,789	17,514	14,726	2,707	300	363	25
llinois Nosana	358,761 80,390	341,937	16,024	356,761	341,937	16,824	Ŏ	ě	
	••/3	66,759	13,639	00,390	66,759	13,639	•	•	
OWA	70,062	62,420	7,642	70,062	62,420	7,642	•	•	
AMBAS ENTUCKY	42,665	37,017	5,649	42,167	37,017	5,150	. 499	ŏ	49
entucky Outriana	79,006 68,722	67,713	11,294	70,567	67,713	10,074	419	•	41
WINE.	23,075	56,056 20,475	11,066 3,419	60,722 23,695	56,056 20,475	11,000	0	0	
-		20,110	304.	62,013	20,473	3,419	•	•	,
MRYLANO: MBBACHUBET78	110,531	104/019	14,512	110,531	104,019	14,512	0	•	
izenigan	265,27 <b>5</b> 262,679	245,146 <b>236,</b> 394	20,169	257,950	245,106	12,052	7,317	_ 0,	
INNESO7A	114,147	103,130	25,605 11,007	245,704 · 114,025	227,664	10,100	16,295	0,710	7,50
1001001901	52,100	44,112	0,074	52,106	44,112	10,007 0,074	122	0	12
IBBOURT							<del>-</del>	•	
ONT ANA	71,474	70,337	13,150	91,494	70,337	.13,150	Ō	•	
edra <b>s</b> ka	25,607	21,534	4,072	25,607	21,536	4,072	0	•	
EVADA	13,453	12,016	1,437	13,453	12,016	1,437	ŏ	ï	
en Hampshire	13,030	10;454	2,576	12,505	10,454	2,131	445	Ö	44
EN JERSEY.	170,599	162,330	16,269	170,599	102,330	10,209	·0		
En MÉXICO	30,230	24,032	5,406	20,563	24,032	3,731	1,075	9	1,079
EN AOUK	500,254	552,161	36,093-	500,254	552,161	36,093	.,,	i	• • • • • • • • • • • • • • • • • • • •
ORTH CAROLINA ORTH DAKOTA	207,926	190,609	17,316	207,426	190,609		Ō	Ō	ì
	16,595	14,594	2,001	14,595	14,594	2,001	•	۰,	(
MIO .	364,053	320,369	35,604	352,436	321,024	30,012	11,017	0,545	5,07
KLAHOMA	90,403	02,206	0,197	84,474	81,392	9,002	920	813	-119
regon Ennsylyania	24,136	15,579	8,557	22,255	15,579	6,676	1,001	•	1,00
HOOK ISLAND	303,515 -20,604	267,625 26,622	33,001	293,180 20,523	267,625	23,563	10,327	•	10,32
_		20,022	27002	241323	26,022	2,501	161	0	. 161
OUTH CAROLINA	136,093		9,674	134,073	126,419	4,674	•	•	
onth bakota Chinessee	10,741	0,676	2,045	.10,741		2,045	0	ō	į į
EXAS	116,034 334,967	103,362	12,672 45,370	116,034 273,003	103,362 244,155	12,672	0	0	
7AH	44,572	39,716	4,056	44,572	39,716	20,920 0,850	61,884	45,434	16,45
					- •	-,0,5	•	•	•
ERMON7 IRBINIA	10,354	9,455	1,399	10,054		1,399	0	•	(
1801751 18018670n	167,720	120,114 151,551	13,322 16,160	141,436 163,667	120,114 151,551	13,322 12,135	4,033	•	
EOT VIRGINIA	00,092	35,095	5,747	40,768	35,095	5,673	124	9	•,031 124
iscono in	191,935	170,570	21,357	163,075	150,632	12,443		19,946	0,91
YOHING	6,350	. 5,005	1,345	5,700	4,723	1,057	570	202	200
107AL_U.S.	00,615,016	\$5,767,401	8645,617	86,435,673	85,831,691	<b>#553, 903</b>	0179,342	107,709	\$91,633
		,			•			7	
HERSCAN BAMOA Vam	010 216	255	.500	010	255	200	. 0	•	
VERTO RICO	41,120	29,167	216 11,962	155 39,352	20,693	155 10,657	1,777	474	4 - 701
RUST TERRITORY	37		37	35,735	27,473	21,	1,777	474	1,302
ENGIN ISLANCS	•	ě	•	-0	ŏ	-ō/,	•6	ŏ	- "
OUTLYING AREAS	842,191	\$27,669	<b>\$12,503</b>	840,339	\$29,215	\$11,124	\$1,653	8674	01,376
<u>.</u> <u>.</u>									•
. AND DUILYING AREAS	84.457.267	85,999,890	\$050,120	86,476,012	85,710,706	8565,107	\$101,145	100,103	893,011

MOTES DETAILS NAY NOT ADD TO TUTALS BECAUSE OF ROUNDING.



TABLE 7.6 -- VOCATIONAL EDUCATION (VEA) SECTION 128 EXPENDITURES, SY SOURCE OF FUNDS, AND SY STATE: UR OUTLYING AREAS SCHOOL YEAR 1978-79 (SINCLUDES CARRYOVER AND UNLIQUIDATED USLIGATIONS)

		EXPENDITURES			OUTLAYS		UNLIQUI	1,035			
STATE OR QUILYING AREA		MQH ="			NON-			NON-			
personal services of the servi		FEDEPAL		TUTAL.		FEDERAL			FEDERA		
LABAHA				IT, 'IN THOUSAN							
readus.	61,379 12,235	51,794 11,851	9,586 1,184	\$9,545	51,794	7,751		•	1,43		
ARI ZONA	33,441	29,057	4,343	12,929 33,441	11,451 29,657	976 4,383		•	20		
ARKANSAS	28,372	33,917	4,454	26,372	23,917	4,454					
CALIFURNIA	056,004	804,748	52,144	455,494	884,740	50,759	•	š	1,30		
COLORADU	64/787	59,508	5,206	64,707	59,500	5,206	•	•	_		
CONNECTICUT DELAHARE	57,922	52,730	5,192	57,922	52,730	5,192	•	•			
DISTRICT OF COLUMBIA	31,688	36,579 4,617	1,189 1,244	31,688= 5,186	30,579	1,100		•	_		
LORIDA	347,577	342,114,		354,562	4,617 342,114	1,169		i	-13,61		
BEONG 1A	105,525	43,426	12,499	97,103	85,659	11,443	•	7.347	1,05		
IAHA 11	12,347	10,713	1,034	11,063	10,401	1,461			17		
idapo . Illyhois	14,108	12,090	2,018-	114,100	12,000.	2,010					
MOIANA	334,766	326,675	11,031	336,706	326,875	11,631					
-	68,728	59,864	9,664	68,728	59,864	7,664	•	0			
lowa Kanaas	62,762 35,315	57,072` 31,24 <b>0</b> -	5,690 4,074	62,762	57,672	5,690-		•			
ENTUCKY	66,962	58,750	8,223	34,967 66,631	31,240 58,759	3,724 7,872		•	34		
OUISIANA	48,629	40,280	0,541	48,629	40,200	6,541		•	35		
MINE	20,412	10,450	2,462	20,912	18,450	2,462					
MARYLAND	45,452	85,606	10,346	95,952	85,606	10,346	0	0	(		
ASSACHUSETTS	239,294	553,450	15,374	233,891	223,920	4,970	5,404		5,40		
iichiban Iinnebota	263,701	187,642	16,059	189,734	161,367	8,346	13,966	6,275	7,69		
11881881PP1	98,379 39,414	98,574 33,652	7,804 5,761	98,379 39,414	98,574 33,652	7,804 5,761		•	~(		
IISBOURI	62,093	52,942	4,151	62,093	52,942	9,151-		•			
IONTANA .	0		,,,,,	02,010	0	77.5		ŏ			
ESRASKA	21,020	18,046	5,463	21,028	18,046	2,463		ŏ	i		
ievada Iew . Hampshire	12,002 10,254	10,928 8,383	1,074 1,871	12,002` 10,003	18,928	1,074 1,620		0	25		
E# JERSEY	165,329					•		•			
EN MEXICO.	25,917	153,445 21,872	11,884 4,045	145,329 24,615	153,445 -21,672	11,884 2,943					
IEN YORK	567,159	541,543	25/616	567,159	541,543	25,616		ž	1,10		
IORTH CAROLINA	103,426	174,952	12,474	103,426	170,952	12,474		š			
IORTH DAKOTA	13,006	.12,393	1,413	13,406	12,393	1,413	ě	0	į (		
OHIO	291,463	265,610	25,053	281,514	259,317	22,197	9,949	6,293	3,650		
XLAH04A	79,293	73,397	5,696	78,520	72,661	5,859	773	734	37		
regon Pennaylvania	21,174	15,124	6,050	19,932	15,124	4,808	1,848	0	1,24		
HODE ISLAND	279,637 24,581	255,546 22,514	24,091 1,987	272,345 24,368	255,546 22,514	10,799	7,292 134	•	7,292 134		
OUTH CAROLINA	123,546	110,659	6,667	123,546	116,659	6,887	•	•			
OUTH DAKOTA	7,081	6,336	1,544	7,001	6,330	1,544	ŏ	š	9		
ENNESSEE	92,005	83,839	0,165	.92,005	83,839	. 0,165	š	i			
EXA <b>S</b> ITAM	262,018 39,959	229,020 36,617	32,998 3,342	250,552 39,959	260,161 36,617	21,061 3,342	30,006	28,859	11,13		
ERHONT			-			_		-			
IRGINIA	9,181 123,021	8,858 113,450	1,843 9,571	7,101 123,021	8,058	1,043	•	•	9		
ASHINGTUN	137,764	126,599	11,165	135,277	113,450 124,599~	9,571 -8,678	2,467	•	2,487		
EST VIRGINIA	34,348	30,203	4,085	34,348	30,203	4,085	2,770	ĭ	-,		
ISCONSIN	164,486	147,050	15,376	140,100	131,049	9,138	24,239	18,000	6,23		
itoutue	4,365	3,493	871	4,096	3,350	737	564	135	139		
TOTAL U.S.	<b>85,725, <del>9</del>52</b>	05,264,571	8461,376	35,592,733	85,196,594	8396,131	\$133,222	867,977	865,249		
MERICAN BAHOA	703	486	217	703	486	217	0	•			
UAN WERTO RICU	240	0	500	148	4.4 . 4	142	50	0	50		
NUST TENRITURY	27,700	19,135	8,565	56,356	14,685	7,641	1,374	451	929		
IRGIN ISLANDS	0	•	0		0	0	•	0			
OUTLYING AREAS	\$28,603	\$19,621	SAP,88	827,171	\$1 <b>9,</b> 171	88.000	81,432	8451	8982		
.S. AND DUTLYING AREAS		85,284,192	8470,358	85,619,944	85,215,765	\$704,131	8134,654	846,426			

MOTES DETAILS MAY NOT ADD TO TOTALS BECAUSE OF ROUNDING.



TABLE 7.7 -- VOCATIONAL EDUCATION (YEA) SECTION 138 EXPENDITURES. BY SUURCE OF FUNDS. AND BY STATE OR DUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDVER AND UNLIQUIDATED OBLIGATIONS)

		expenditùrea 			OUTLAY 8		UNLIGU	IDATED UNL	IGATIONS
STATE OR BUTLYING AREA	TOTAL	` hun- Federal	FEREN	7074	NON-			NÚN-	
	•		*********	T, IN THOUSAND	FEDERAL	-FEDERAL	TOTAL	FEDENAL	FEDERAL
ALABAMA ^	5, 331	3,850							
ALASKA	329	3,030		5,279	3,050	5,229	55	•	52
ARIZONA	2,062	•46		287 2,062	49	538	42	0	42
ARKANSAS	4,805	3,903	506	4,805	3,903	1,416	0	•	
CALIFORNIA	52,547	30,544	13,959	51,270	34,500	12,602	1,277	ŏ	1,277
COLORADO	3,873	2,532	1,341	3,473	2,532	1,341	0		
COMMECTICUT DELAMARE	2,430-	1,452	978	2,430	1,452		ŏ	ě	ĭ
ISTRICT OF COLUMBIA	1,384 345	1,061 34	244 311	1,304	1,061	244	0	Ō	ŏ
FLURIDA	17,723	12,250	5,464	340 15,755	34 12,260	306 3,495	1,708	0	1,968
SECACIA	4,360	1,372	2,988	3,575	1,194	₹	•	•	
HAWAII	1,078	634	444	1,032	627	2,3A0 405	785	178	608
IDAHO	1,237	773	464	1,237	773	464	47	7	40
ILLINOIS	4,417	1,765	5,652	4,417	1,765	2,652	ò	ŏ	Š
ENDIAŅA 	3,967	1,713	2,254	3,967	1,713	2,254	Ü	Ŏ	ŏ
LONA	1,847	624	1,223	1,847	624	1,223	٥	0	, ,
Kanaas Kentucky	2,319	1,308	1,011	2,198	1,308	890	121	0	121
AMAIAIUO	2,692 10,322	783	1,909	-2,664	783	1,881	28	ŏ	20
1A INE	935	8,273 402	2,049 534	10,322	8,273	2,049	0	•	Ō
Ni.			734	935	402	. 534	0	•	•
IARYLAND IABBACHUBETTS	5,517	2,943	2,574	5,517	2,943	2,574	0	0	
ichigan	9,649 37,686	6,464	3,184	8,425	6,46%	1,960	-1,224	ò	.1,224
INNESOTA	8,792	30,661 6,725	7,025 2,067	35,552	30,255	5,297	2,133	406	1,728
Ilagiosippi	6,941	5,570	1,371	8,792 6,941	6,725 5,570	2,067 1,371	0	0	0
INUORII	20,329	17,661	2,660	20,329	17,661	2,448	0		
IONTANA,	0			•	9	- O	ŏ	ŏ	š
EBRASKA Evada	1,677	1,023	654	1,677	1,023	^ 654	ò	ě	-0
EN HAMPSHIRE	276 743	62 361	214 382	276 617	62 361	214 256	125	0	
En JER <b>S</b> EY	. 6,264	3,700	2,564		_			•	125
EN NEXICO	934	95	839	6,264 590	3,700 <b>9</b> 5	2,564		-0	
EH-YORK	7,656	. 500	7, 156	7,656	500	495 7,156	344	0	344
ORTH CAROLINA	10,385	7,195	3,110	10,305	7, 195	3,110	.0	ŏ	•
WATH DAKOTA	841.	489	355	841	489	352	ŏ	i	ĭ
OIMS	18,652	12,596	6,057	17,801	12,460	5,341	852	136	7.4
KLAHOMA	5,219	3,711	1,507	5,066	3,039	1,426	153	130	716 '81
MEGON '	1,849	172	1,677	1,407	172	1,235	442	6	442
enhaylyania Hode Island	18,353 1,368	11,970	6,383	16,371	11,970	4,402	1,981	ŏ	1,981
	.,,,,,,	971	397	1,363	971	345	5	•	5
UUTH_CAROLINA Guth Darota	6,669	4,920	1,749	6,669	4,+20	1,749	•	•	•
ENNESSEE	614	. 592	329	614	205	329	•	10	ŏ
EXA	4,934 37,870	2,639 28,457	2,294 9,413	4,934	2,639	2,294	0	_ 0	•
<b>†</b>	2,915	1,947	968	17,133 2,915	11,947. 1,947.	5,186 968	20,737	16,511	4,226
Eknye <i>t</i>	500	279	222	. 508	279	222	•		•
IRGINIA	4,175	1,918	2,257	4,175	1,918	, 222 2,257	0	•	•
ABHINGTON	10,812	7,659	3, 153	9,845	7,659	2,184	967	<b>0</b> ,	907
ebt Virginia I <b>sco</b> mbin	2,270	1,140	1,130	5,515	1,140	1,072	4	ŏ	39
YUNING	20,585 561	16,773 271	3,813 290	17,095 346	14,986 164	2,109	3,490	1,787	1,784
TOTAL U.S.	\$378,879	\$260,379	8118,503			182	215	108	188
			,	<b>83</b> ≈1,827	\$241,176	\$100,651	837,052	\$19,205	817,851
MERICAN BAHDA Uah	45	0 0.	45	45	0	45	0	•	0
VERTU RICO	5, 300	3,067	5,533	5, 858	3,062	1,996	.242	9	3
RUST TERRITORY	7	0	7	1	3,000	1,770	.242	3	237
IRBIN ISLANDS	0	0	•	ō	ŏ	ö	ō	ŏ	~ ° 0
OUTLYING AREAS	\$5,356	>3,067	42,249	85,105	\$3,062	82,043	8251	85	8246
.S. AND OUTLYING AREAS	\$384,235	\$263 ₀ 446	\$128,792	.8346,932	-8244,238		837,303		

NOTE: DETAILS MAY NOT ADD TO TOTALS SECAUSE OF ROUNGING.



TABLE 7.8 -- VOCATIONAL EDUCATION (VEA) SECTION 148 EXPENDITURES, BY SHURCE OF FUNDS. AND BY STATE OR OUTLYING AREAS

SCHOOL YEAR 1978-79

(INCLUDES CARRYOYER AND UNLIQUIDATED OBLIGATIONS)

-		PENDITURES			OUTLAYS			DATED WOLL	
Aga antivina area	TOTAL	NON- FEDERAL	FEDERAL	TOTAL	NÜN+ FEDERAL	FEDERAL	TOTAL	NUN-	
Accessors to the contract of t			**********	******	PEDENAL	LEDENYP		FEDERAL	FEDERA
	_		•	IN THOUSANDS	•		•		
LABAMA LABKA	482		482	343	, • •	<b>'343</b>	59	•	5
AIZONA -	. 170	44	68 158	55 198	40	46 158	14	•	1
AKANSAS	156	•	146	156	•	146	ě,	. š	
ALIFORNIA .	3,165	c 1896	5,269	3,165	896	5,564	•	•	
OLORADO	337 *	11-	326	337	11	326	•	٥	
ONNECTICUT	453	193	268	453	193	268	ě	ĭ	
ELAVARE	110	11	36	1110	88	36	0,	•	
ISTRICT OF COLUMBIA LORIDA	62 5,864	4,613	62 1,251	68 5,154	4,613	60 -541	710		••
	•	4,0,2	1767.	37134	7,013	-341		•	71
IONSIA.	374	0	374	196	0	196	178	•	17
MAII MAD	72 - 138	8	72 ^ 130	64 136	9	64 130		•	
LINOIS	762	303	479	782	383	479	š	š	
IOZANA	1,469	783	767	1,469	783	767		ŏ	
)wA '	:343	146-	198	343	146	198	•	٥	
MSAS	219	72	147	198	72	117	0 29		1
MTUCKY	314	Ĭ	334	314	Ī	319	15	ĕ	
WISIANA	1.450	1,524	397	1,920	1,524	397	0	•	`
INE	191	7 8	. 191	191	•	191	. 0	•	
ARYLAND	585		497	,505	•	497	•	•	
ABBAC: UBETTS	592	i	- 592	291	ě	291	302	•	34
ichigan Innebuta	928	180	740	800	100	640	-120	50	10
INNEBUTA ISSISSIPPI	366 484	221 221	366 263	366 484	<b>8</b> 221,	. 263	0	0	
	707		-	707	661,	_	v	٧	
SSOURI	665	566	393	660	266	393	•	•	
MTANA Braska	8 131	. 8 10	121	.131	10	121	0	•	
VADA	131	42	53	-131	42	53		š	
H-HAMPSHIRE	188	ï	180	, 69	7	69	-31-	ŏ	3
IN JERSEY	1,129	628	501	1,129	628	<b>Š</b> 01	0		
MEXICO	139-	0.	139	54		54	85	ĭ	•
W YORK	607	Ŏ	607	607	ŏ	607	ő	ě.	
MTH CAPULINA	539	•	539	539	•	<b>\53</b> 9	•	0.	
MTH DAKOTA	83	3	80	83	3	• 00	0	Ú	
10	1,511	48	1,463	1,366	48	1,338	125	0	18
LAHOMA	269	_36	213	. 594	56	213	•	v	-
ESON	390	59	331	273	59	213	118	•	11
nnsylvania Woe island	1 / 437 169	**	1,350 169	993 151	-88	905 151	444 18	0	-44
	-		*		_				•
UTH CAROLINA	343	15	348	343	15	368	•	0′	
NTH DAKOTA*	12 464	8 34	12	12	· 34	12 430	•	0	
XAS	745	37	430 <b>43</b> 0	464 571	37	570	377	ž	34
M	. 668	491	177	668	491	177	5.0	ŏ	•
RNONT	34	•	34	••	•	34			
RGINIA	20 788	0 485	20 504 ·	20 <b>7</b> 48	485	20 504	0	-0	
BHINGTON	1,155	569	585	936	569	267	318	ŏ	31
ist virginia	350	555	128	350	555	128		.0	•
isconsin /ohing	971 145	183 69	6 <b>88</b> 76	499 95	173 44	326 51	372 50	10 25	34
•									
TOTAL U.S.	8327787	812,293	820,495	829,413	\$12,230	817,182	#3,376	863	\$3,31
ERICAN SAHUA	ŕ	•	7	· 7	•	7	•	•	
MAM	11	ĭ	ıi ·	11	š	11	i	i	
ERTO PICO	343	Ò	343	317		317	46	•	4
UST TERRITURY RGIN ISLANDS	<b>21</b>		21	21	٥	21	0	•	
		* "		-	·	•	·		
OUTLYING AREAS	8402	\$0	8402	<b>\$356</b>	80	\$356	846	80	84
S. AND DUTLYING AREAS	533,189	\$12,293	\$20,897	829,769	<b>\$12,23</b> 0	817,538	\$3,422	863	83,35

NOTE: DETAILS-MAY NOT ADD TO TUTALS SECAUSE OF HOUNDING.

TABLE 7.9 -- VOCATIONAL EDUCATION (CYEA) SECTION ISS EXPENDITURES, SY SOUNCE OF FUNDS AND SY STATE OR DUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYOYER AND UNLISUIDATED OBLIGATIONS)

*********		expenditume o	*****		QUTLAYO		ONTIONI	DATED HOLI	GATIUNS
STATE OR DUTLYING AREA		hOke			NÚN-			NUM-	
TATE OR DUTLYING AREA	*******		PEDEMAL	TUTAL	FEDERAL	, FEDERAL	TOTAL	FEDERAL	FEDERAL
LABANA			ווייטייא	. 14 140084401	)				
LASKA	6,730 427	5,943 313:	707	6,677	5,943	734	53	•	53
RIZOMA	4,074	-4,414	115	4u2 4,374	313		.26	•	26
RKANSAS	4,955	4,504	452	4,955	4,414	460	•	•	•
ALIFORNIA'	74,355	(69,715)	4,640	74,355	69,715	452 4,640	0	•	:
OLDRADO	5,103	4,638	546	5,163	4,438	540	•		•
ONNECTICUT ELAMARE	6,460	5,902	406	6,460	5,902	406	ĭ	ŏ	i
ISTRICT OF COLUMNIA	1,657	1,549	100	1,657	1,549	100	ă	i i	
rou19v	20,011	-312 10,252	2,559 2,559	440 1 <b>9,</b> 491	10,252	120	1,320	Ì	i
EORGIA'	12,260	11,121	•		•	~		•	1,320
AWAII	1,241	1,040	1,147 173	12,090	11,000	1,001	170	112	••
DAHO	2,031	1,055	176	1,240 2,031	1,065	136	41	4	37
LLIN018	14,056	12,994	1,062	14,056	1,055 12,994	176 `	0	•	•
MOIANA	0,233	5,270	955	6, 233	5,270	1,062 955	•		•
DHA	5,109	4,570	531	5,109	4,570	531		•	
ANSAS	4/013	4:376	417	4,013	4,3%	417		•	•
intucky Duisiana	0,990	0,170	121	0,973	0,170	362	26	· ·	
/IME MISTAGE	7/650	4,771	979	7,650	6,771	679		7	26
	1.050	1,623	233	1,056	1,623	533	•	i	i
ARYLAND	16,557	15,462	1,095	16,557	15.462	1,095	•	•	
ABBACHUBETTS ICHIGAN	15,740	14,721,	1.019	15,352	14,721	631	340	ĭ	346
INNESUTA	19,773	17,911	1,062	19,690	17,902	1,795	76	•	
1881881991	6,610 5,347	5,039 4,669	771 670	6,400, 5,347	5,039 4,669	450	155	<b>.</b>	155
ISSOURI	-					<u> 4</u> 70 ·	~ •	0	•
MTANA	0,413	7,460	145	9,413	7,400	145	•	•	*•
BRASKA	2,772	2,457	315	2,772	2,457	- 6 315	•	•	•
lyada In mampshire	1,000	.904	76	1,000	104	76		ï	
in uncreuese	1,933	1,710	553	1,476	1,710	106	· 37	š	37,
EN JERSEY EN MEXICO	5,070	4,557	1,320	5,070	4,557	1,320	0	٠	•
EN YORK	3,248 12,032	2,064	345	3,104	2,066	538	145	Ĭ	145
MTH CAROLINA	13,056	10,118 12,462	2,714	15,035	10,110	2,714	•	•	
MIN DANOTA	1,004	1,709	1,194 156	13,656 1,664	1,709	1,194 156	•	0	•
110 .	5Ź,427	50,115	2,312	*				-	_
KLAHUHA	5,621	5,041	501	51,736 5,619	49,999	1,737	691	116	575
IESON' _	722	223	499	3/017	5,935 223	504		5	:3
INNSYLYAN IA	4,609	5:055	. 2,007	3,478	2,022	420 17457	79 - 610		. 79
IOOE 18LAND	2,646	2,534	110	2,642	2,534	106	• • • •	i	310
UTH CAROLINA	. 5,496	4,025	671	5,496	4,025	671	٥	•	,
ATURAG - HTU	2,234	2,073	101	.2,234	2,073	101	ĭ	š	i
NNESSEE	10,632	16,549	1,702	10,632	10,049	1,702	i	i	i
AA AM	34,131 1,030	.32,103 661	2,029 349	33,357 1,034	32,04e,	1,311	774	56	71 <b>0</b>
± Amont			_			364	9	•	. •
RGINIA	1,232	1,110	114	1,232	1,115	114	. 0	•	- 0
SHINGTO:	13,251	. 12,261 16,725	991 1,265	13,251	12,261	991	_ 0	•	· •
ST VINGINIA	3,904	3,450	454	17,729 3,038	10,725	1,804	561	• •	561
BCUNGIN	0,052	- 4,572	1,480	5,293	3,450 4,423	300 070	759		
OHING	1,279	1,172	107	1,243	1,157	.06	/3V	149 15	\$1 11
TUTAL U.S.	8477,394	\$432,155	845,245	5471,744	8431,608	\$40,010	\$5,695	. 0500	
ERÍCAN BANGA	56-	'37			• •	•		. 4444	621530
AN .	1	•	19- 1	56	37	19	•	•	
ERIO RICO	7,765.	6,764	•oi	7,650	0,94	704	114	1	
UST TERRITURY RGIN ISLANDS	•		• •	* <b>0</b>		•			**
/ / / / / / / / / / / / / / / / / / /	0	•	, 0 -	Ú	. 0	•	•	•	•
OUTLYING AREAS	67,031	57,001	0030.	\$7,706	85,983	8723	<b>9123</b>	\$10	\$1.05
8. AND DUTLYING AREAS	3445,225	5439,156	346,075	8479,418	8430,671	840,741	35,018	1414	\$5,335

NOTE: DETAILS MAY NOT: AND TO TOTALS SECAUSE OF MOUNDING.

U.S.-DEPANTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



Table 7.10
Total Federal vocational expenditures (VEA), for Sections 120, 130, 140, and 150: Fiscal year 1978

(Including carryover)

State or	Total Federal		Sect	ion	
outlying area	expenditures	120	130	140	150
Total	\$499,105,884	\$379,555,148	\$64,663,668	\$17,133,184	\$37,753,884
Alabama	13,143,184	10,517,164	1,448,708	365,756	811,553
Alaska	ે 1,048,50કે	843,587	133,192	34,621	37,108
Arizona	6,294,505	4,487,191	1,123,396	218,534	465,384
Arkánsas	5,403,005	3,912,838	811,429	223,737	455,001
California	32,594,621	25,805,231	2,914,021	1,372,053	2,503,316
Colorado	6,945,793	5,053,074	1,024,378	238,238	630, 103
Connecticut	5,961,074	4,499,121	783,880	204,297	473,776
Delawai e	1,512,639	1,056,345	285,306	53,288	117,700
District of Columbia	2,026,524	1,399,978	399,207	70,914	156,425
Florida	16,121,464	12,431,558	2,240,611	414,191	1,035,104
Georgia:	12,743,500	9,081,984	2,235,383	282, 582	1,143,551
Hawaii	2,668,834	1,967,515	418,325	89,892	193,102
Idaho	2,654,781	1,878,827	506,202	83,913	180,839
Illinois	23,661,045	18,357,623	2,534,313	769,323	1,999,786
Indiana	14,111,632	10,953,080	1,579,812	514,943	1,063,797
Iowa	7,776,283	5,956,744	1,042,213	247,915	529,411
Kansas ·	4,475,253	3,601,435	408,026	117,531	348,261
Kentucky	9,455,373	7,075,630	1,164,903	367,391	847,449
Louisiana	12,091,403	8,781,341	1,958,184	436,693	915,185
Maine	3,545,751	2,745,175	444,038	33,821	322,717
Maryland	10,328,381	8,183,251	959,099	464,780	721,251 [°]
Massachusetts	5,392,197	4,126,313	601,169	71,192	593,523
Michigan	17,893,779	13,175,686	1,970,984	1,009,424	1,737,685
Minnesota	13,446,640	10,761,325	1,523,206	449,917	712,192
Mišsissippi	9,726,688	7,393,170	1,378,896	265,024	689,598
Missouri	13,289,053	10,549,430	1,501,149	312,804	925: 570
Montana	2,340,190	1,750,854	332,134	94,953	162,249
Nebraska	3,840,571	2,771,904	584,544	168,559	315,564
Nevada	685,751	557,225	55,962	5,240	67,324
New Hampshire	1,689,974	1,338,526	118,313	73,874	159,261
New Jersey	15,185,798	11,155,367	2,426,432	570,467	1,033,532
New Mexico	2,834,588	2,258,019	368,792	42,768	165,009
New York	37,947,201	27,917,551	5,849,677	1,224,724	2,955,249
North Carolina	19,109,511	14,341,668	2,972,573	585,285	1,209,985
North Dakota	1,941,650	1,354,396	328,720	104,374	154,160



Table 7.10
Total Federal vocational expenditures (VEA), for Sections 120, 130, 140, and 150:
Fiscal year 1978 -- continued (Including carryover)

State or	Total Federal		Section				
outlying area	expenditures	120	130	140	150		
Ohio .	\$ 25,757,868	\$ 18,217,790	\$ 4,462,020	\$ 625,828	\$ 2,452,230		
0klahoma	7,675,900	5,766,944	1,075,233	276,166	557,557		
Oregon	3,797,357	2,600,104	680,340	97,397	419,516		
Pennsylvania	28,738,232	22,183,375	3,159,852	1,242,278	2,212,727		
Rhode Island	2,439,792	1,815,714	412,293	27,441	184,344		
South Carolina	9,656,691	6,694,109	1,881,213	330,066	751,303		
South Dakota	2,164,643	1,613,402	298,226	85,969	167,046		
Tenne: Sée	10,994,285	9,065,698	859,242	475,277	594,068		
Texas	21,487,357	17,146,711	1,905,341	1,192,919	1,242,386		
Utah	3,539,736	2,704,137	484,928	103,798	246,873		
Vermont	1,530,102	1,109,441	256,247	44,635	119,779		
Virginia	12,567,910	9,910,344	1,411,139	335, 294	911,133		
Washington	4,682,511	3,617,236	743,191	71,477	250,607		
West Virginia	5,931,104	4,751,256	555,527	156,876	467,445		
Wisconsin	7,950,120	6,104,820	987,022	203,083	655, 195		
Wyoming	783,461	602,586	104,866	14,4	61,577		
Outlying area:							
American Samoa	71,694	59,149	9,086	3,459	. 0		
Commonwealth of North	hern		,,,,,,	3,433	U		
Marianas	9,360	2,754	6,606	0	0		
Guam	0	0	.0	ŏ	0		
Puerto Rico	9,378,224	7,547,056	944,119	258,771	628,278		
rust Territory of the	he	• •		<b>,,,_</b>	,		
Pacific Islands	2,396	2,396	0	0	n		
/irgin Islands	0	Ó	0	Ö	0		

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.



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Table 7.11
Allocations and expenditures of Federal (VEA) funds, by legislative section: Fiscal years 1978 and 1979

		Section					
Fiscal year	Total	120	130	140	150		
Allocations	,						
1979	\$598,955	\$430,468	\$107,617	\$19,960	\$40, 910		
1978	577,072	412,980	103,245	19,952	40,895		
Percent change	3.8	4.2	4.2	0.04	0.04		
Expenditures		·					
1979	658,120	470, 358	120,792	20,897	46,075		
1978	499,106	379,555	64,664	17,133	37,754		
Percent change	31.9	23.9	86.8	22.0	22.0		

NOTE: Details may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Vocational Education Data System; U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.

TABLE 7-12 -- ALLOCATION OF FEDERAL (VEA) FUNDS, BY LEGISLATIVE SECTIONS AND BY STATE UR DUTLYING AREAS FISCAL YEAR 1979

STATE UR OUTLYING AREA		WASIC GRANTS	-PHOGNAN INPRUVENENT	DIBADYANTAGED (BEC 148)	CONSUMER AND	STATE RUBIYDA
ALABANA					***********	
ALASKA	12,122,355	0,457,873	2,104,208	441.303	***	
AR I ZONA	1,135,111	701,901	190,476	401,392 35,320	422,734	76,666
ARKAHBAS .	6,759,843 6,686,588	4,003,019	1,200,955	222,733	72,488 456,53c	75,000
CALIFORNIA	52,371,540	4,751,748 37,531,105	1,107,935	220,310	451,507	75,000 75,000
COLORADO	5575117545	3,13311103	4,342,776	1,740,161	3,500,007	150,069
COMMECTICAT	7,500,059	5,336,962	1,334,240			
DELAMARE	7,045,393	5,000,794	1,251,698	247,453 232,144	507,204	75,000
DISTRICT OF COLUMNIA	1,513,507	1,007,757	271,939	50,435.	475,026	70,931
FLORIBA	1,001,061 21,003,324	1,241,189	310,277	57,545	103,376 117,950	75,000
At noon .	-1,003,334	15,670,737	3,917,509	726,555	1,409,219	/3/000
OCONGIA MAMAII	15,063,586	11,257,643	2,014,411			•
IDANO	2,375,471	1,653,347	413,337	521,976	1,059,032	•
ILLINOIS	2,656,710	1,055,479	463,076	76,659 06,632	157,120	75,000
INDIANA	25,992,754	10,572,642	4,643,176	061,136	176,337 1,765,675	75,000
	15,276,676	10,909,702	2,727,426	505, 838	1,030,015	150,469
104A	7,902,000	5,682,758	4	*	**********	76,693
NAKRAS .	6,375,020	4,520,397	1,420,490	263,485	540,007	75,000
ZZ#TUĆKÝ	11,035,265	7,077,130	1,132,199	209,963	430,361	75,000
Louisiana Maine	13,634,471	7,300,453	1,969,265 2,327,113	365,230	740,012	75,000
41910	3,462,373	2,434,500	450,026	431,594	004,639	92,672
MARYLAND	10 222 012		200100	112,677	231,344	75,000
MABBACHUSE 773	10,777,005	7,691,576	1,922,093	350.025	730,977	98 444
HICHIBAN	15,464,227 24,032,300	10,990,255	2,749,564	509,943	1,045,231	75,000
INNESO7A	11,400,000	17,739,006	4,434,771	122,400	1,005,054	1u3,234 150,669
·IOOISOIPPI	7,900,544	6,261,746 5,087,461	2,050,270	340,254	779,486	75,000
·ISSOURI		*100.1401	1,421,865	203,704	540,514	75,000
-1840UKI ION7ANA	13,953,636	7,764,866	2,491,217		_	
E BRASKA	2,425,715	1,007,450	422,344	462,029 78,334	947,022	00,504
EVADA	4,503,736	3,102,931	795,733	147,579	160,559	75,400
iem Hampamire	1,541,957 .	1,054,695	203,074	40,702	302,493 180,234	.75,000
*	2,421,366	1,665,740	421,465	70,710	100,225	74,452 75,000
ien jergey	15,122,699	11,507,521	i			737000
EN:MEXICO	4,170,009	2,949,449	5,676,600	537,266	1,101,232	
ien yurk Iorth Carolína	41,676,037	29,903,747	737,362 7,495,937	134,754	200,304	75,000
ORTH GARUTA	17,585,432	12,550,400	3,139,620	1,390,221	2,049,537	150,595
on in varying	2,291,295	1,592,050	340,213	502,204 73,854	1,193,509	111,530
MIO	30 363 445			137034	151,376	75,040
KLAHONA.	29,753,463 8,298,541	21,275,502	5,318,076	700,450	2,021,940	150,669
MEGON	6,446,647	5,910,256	1,477,564	274,033	561/400	75,000
Embylyania	31,120,131	4,500,301 22,366,626	1,145,220	212,397	435,349	75,000
HODE ISLAND	2,712,326	1,075,445	5,591,504	1,037,020	2,125,579	
OUTH CARULINA		210,0140	473,661	<b>#7,884</b>	100,136	75,00Ô
OUTH DAKUTA	9,072,005	7,001,143	1,700,276	326,467		•
EMESSEE	2,430,744	1,093,072	423,266	78,501	669,159	75,000
EXA	13,310,034	V.510,090	2,377,524	440,944	160,963 963,662	75,000
7AM	34,854,599. 4,307,762	26,346,523	6,595,131	1,223,155	2,507,101	84,466
	-13011105	3,042,005	760,521	141,040	207,100	150,669 75,666
ERMON7	1,695,675	1,164,347	304 443			,,,,,,
IRSINTA	14,795,736	10,500,243	291,007 2,641,561	53,906	110,655	75,000
ABHIMSTON EB7 VIRGINIA	7,507,535.	6,700,596	1,695,149	409,913	1,004,174	73,045
I SCONS IN	5,581,216	3,957, 315	969,329	314,369 103,404	644,401	75,000
1041 NG	13,654,493	9,751,236	2,437,000	452,125	376,666 926,719	75,000
	1,200,703	000,251	220,063	40,013	#3,656	06,605
-T074L U.S,	8571,641,685	8422,298,848	A100 070 100	_	******	75,000
			8105,572,692	217,500,410	840,132,064	84,865,871
ERICAM BAMUA	275,000	143,740	35,935	A 44#		
MATO RICO	404,910	237, 112	59,27 <b>0</b>	0,665 14, <b>9</b> 94	13,000	75,000
US7 7ERRITURY	10,207,207	7,393,476	1,040,369	342,005	22,534	75,000
REIN ISLANDS	401,700	234,986	50,746	10,076	742,647 22,332	7,
	300,121	167,544	41,006	7,766	15,923	75,000 75,000
OUTLYING AREAS	\$11,677,296	\$8,176,656	82,644,214	\$379,120	<b>5777,096</b>	8340,000
9, AND OUTLYING AREAS	8083,319,161	8430,467,706	5107,616,906	117,757,534	840,909,520	



Table 7.13
Allocation of Federal (VEA) funds, by legislative section and by State or outlying area: Fiscal year 1978

State or outlying area	Total	120 Basic grants	130 Program improvements and supportive services	140 Special programs for disadvantaged	150 Consumer homemaking educatio
Total	577,071,662	412,980,320	103,245,080	19,951,675	40,894,587
Alabama	11,600,489	8,301,864	2,075,466	401,075	822,084
Alaska:	1,060,112	758,667	189,667	36,652	
Arizona	6,320,754	4,523,433	1,130,859	218,534	75,126
Arkansas	6,420,558	4,594,858	1,148,715	221,984	447,928
California ,	50, 254, 489	35,964,514	8,991,128	1,737,498	455,001 3,561,349
Óal amida	2 021 500				•
Colorado	7,071,522	5,060,719	1,265,180	244,491	501,132
Connecticut	6,570,060	4,702,106	1,175,527	227,166	465,261
elaware.	1,513,507	- 1,083,138	270 <b>,</b> 784	52,328	107,257
District of Columbia	1,726,882	1,235,839	308,960	59,705	122,378
Florida-	20,556,621	14,711,301	3,677,825	710,724	1,456,771
Geòrgia ·	14,938,137	10,690,445	2,672,611	516,471	1 050 610
Havaii	2,228,362	1,594,722	398,681	77,043	1,058,610
Idaho	2,551,828	1,826,210	456,553		157,916
Illinois	25, 151, 797	17,999,828	4,499,957	. 88,226	180,839
Indiana	14,637,575	10,475,348	2,618,837	869,598	1,782,414
	-4,007,075	,10 j 4 / 3 j 3 <u>4 0</u>	,2,010,037,	506,079	1,037,311
Iowa-	7,470,558	5,346,288	1,336,572	258,287	529,411
Kanšas	5,988,932	4,285,966	1,071,492	207,061	424,413
Kentucky-	10,626,227	7,604,636	1,901,159	367,391	753,041
Louisiana	12,571,123	8,996,497	2,249,123	434,634	890,869
Maine	3,252,644	2,327,748	581,936	112,457	230,503
Maryland	10,201,119	7,300,408	1 Pas 103		•
Massachusetts			1,825,103	352,693	722,915
Hichigan	14,773,623	10,572,710	2,643,178	510,783.	1,046,952
Hinnesota	23,288,986	16,666,711	4,166,678	805,193	1,650,404
	10,730,418	7,679,200	1,919,800	370 <b>,9</b> 93	760,425
fississippi _.	7,665,413	5,485,736	.1,371,434	265,024	543,219



Table 7.13
Allocation of Federal (VEA) funds, by legislative section, and by State or outlying area: Fiscal year 1978 -- continued~

State or outlying area	Total	120 Basic grants	130 Program improvements and supportive services	140 Special programs for disadvantaged	150 Consumer homemaking educatio
Missouri [,]	13,274,709	9,500,016			
Montana	2,340,960	1,675,303	2,375,005	458,959	940,729
Nebraska	4,144,155		418,826	80,936	165,895
levada	1,408,783	2,965,755	741,439	143,280	293,681
New Hampshire	2,285,330	1,008,192	252,049	48,707	99,835
,	2,200,330	1,635,492	408,872	79,013	161,953
lew Jersey	15,910,559	11,386,357		•	101,955
lew Mexico	3,914,854		2,846,589	550,091	1,127,522
lew York	40,109,681	2,801,657	700,414 ·	135,352	277,431
orth Carolina		28,704,405	7,176,101	1,386,751	2,842,424
lorth Dakota	17,074,195	12,219,110	3,054,777	590,323	
Dakota	2,216,294	1,586,086	396,521	76,626	1,209,985
hio	20 005 004		•	70,020	157,061
klahoma	28,885,324	20,671,719	5,167,929	998,681	2 244 222
regon	7,900,471	5,653,955	1,413,488	273,151	2,046,995
•	6,104,471	4,368,651	1,092,163		559,877
ennsylvania	30,454,789	21,794,902	5,448,726	211,056	432,601
hode Island	2,637,326	1,887,397	471,849	1,052,943	2,158,218
		• • • • • •	472,045	91,183	186,897
outh Carolina	9,522,525	6,814,774	1,703,693		
outh Dakota	2,355,743	1,685,882		329,232	674,826
enn <b>e</b> ssee	12,709,683	9,095,656	421,471	81,447	166,943
exas	35,114,925	25,129,919	2,273,915	439,424	900,688
tah	4,047,125	2,896,316	6,282,479	1,214,063	2,488,464
	.,,	2,090,310	724,079	139,925	286,805
ermont	1,620,074	1,159,402	222 221		
irginia	14,191,774		289,851	56,012	114,809
ashington	9,223,895	10,156,312	2,539,078	490,666	1,005,718
est Virginia	5,391,653	6,601,060	1,650,265	318,907	653,663
lsconsin		. 3,858,524	964,632	186,411	382,086
	12,943,449	9,262,951	2,315,737	447,507	917,254
yoming	1,224,782	876,513	219,128	42,345	86,796







Table 7.13
Allocation of Federal (VEA) funda, by legislative aection and by State or outlying area: Fiscal year 1978 -- continued

State or outlying area	Total	120 Basic grants	130 Program improvements and supportive services	140 Special programs for disadvantaged	150 Consumer homemaking education
Outlying area:					-
American Samoa	200,000	143,130	35,782	6,915	14,173
Commonwealth of Northern	·	•	-,,	0,715	14,173
Marianes	150,000	107,348	26,837	5,186	10,329
Gu <b>am</b>	· -0	0	0	0	10,029
Puerto Rico	10,027,984	7,176,505	1,794,126	346,707	710 646
Trust Territory of the			.,,	340,707	710,646
Pacific Islands	286,940	205,348	51,337	9,921	20. 224
Virgin Islanda -	227,473	162,791	40,697	7,865	20,334 16,120

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.

# TABLE 7.14 -- OUTLAYS FOR VOCATIONAL EDUCATION (VEA) SECTION 110 PROGRAMS, SY AUTHORIZATION VEAR AND SOURCE OF FUNDS, AND SY PROGRAMS SCHOOL YEAR 1978-79

PRUGRAH	.* 	FISCAL YEAR 1979		)	FISCAL YEAR 1978		
	TOTAL .	NON- FEDERAL	FEDERAL	TOTAL		FEDERAL	
MANDÍCAPPED DISADVANTAGED LIMITED ENGLISH PROFICIENCY ADULT AND POSTSECONDARY SECTION TOTAL	141,174,076 356,280,091 19,754;305 1,615,586,755	266,279,146 16,737,711 1,518,197,598	36,448,270 68,081,743 3,016,594 97,389,157	33,120,948 60,712,194 1,526,318 523,919,928 8619,287,388	16,436,761 23,759,543 663,920 486,219,565 8529,079,789	16,692,187 36,952,651 862,398 35,700,363	

### TABLE 7.15 - DUTLAYS FOR PROGRAMS FOR MANDICAPPED EMRCLIEES UNDER (VEA) SECTION 118, 8Y-SOURCE OF PUNDS, AND SY STATE OR DUTLYING AREA: SCHOOL YEAR 1978-79 (IMCLUSES CARRYDVER)

	******	047L478	FEDERAL AS	**************************************	
STATE OR OUTLYING AREA	707AL	NON- FEDERAL	PEDERAL	PERCENT OF	NUME EDEPA
********************	,,	<del></del>	<del>**************************</del> *******	<del></del>	
ALABANA ALABANA	1,324,195 410, <b>86</b> 3	730;750 265;305	593,437 .144,400	44.6	1.13
AMI BONA	1,609,419.	1,111,192	576,227	35.2 34.2	1.92
ARKANSAS	1,540,671	035,040	735,623	46.9	i.is
*EALIPORNIA	24,463,654	17,669,975	6,793,003	27.6	2.66
COLONAGO	3,005,309	2,3j9,j96	686+173	22.4	3.30
: COMMECTICUT : OCLANARE: :	2,844,797	2,091,145	755,452	26.5	2.77
DISTRICT OF COLUMNIA	2,015,150 <b>352</b> ,513	1,070,004	-1 <b>36,294</b> 147 <b>,58</b> 7,	41.7	13.79
PLORIDA	9,030,010	8,194,698	1,643,320	16.7-	1.55
OCCURIA	3,104,554	1,729,455	1,455,699	45.7	1.19
MANAII		331,762	164,090	33.2	2.01
19440 ILL14076	\$40,640	290,411	245,229	44,6	1.23
3MD JAMA	16,765, <b>6</b> 67 3,247,625	15,169,873 1,796,088	1,535,994 1,449,537	9.2 44.6	7,66 -1,24
10viA	1,957,126			•	٠ _
KANSAS -	864,147	1,211,846 464,559	745,262 [.] 3 <b>97,</b> 588	30.1. 46.2	1.63. 1.16
MENTUCKY.	:1,926,201	1,000,771	639,436	43.6	1.20
- LOVISIAMA	1,297,059	593,899	703/100	\$4.2	1.14
MANE	853,406	557,272	<b>296,134</b>	-34.7	1.00
MARYEAND.	4,061,920	3,373,320	1,400,000	30.6	2.27
: MASSACHUSE 778 . MICHIGAN	7,141,410 4,475,345	5,909,324	1,232,006	17.3	4.00
MINNESO7A:	3,103,893	3,201,662 2,678,750	1,773,733 1,025,143	35.7 33.0	1.61 2.63
W1001001PP1	1,697,936	973,126	724,616	42.7	1.34
MISSOURI	3,250,730	1,030,652	1,420,464	43.7	1.29-
MOMTANA - MESRASKA	. 612,691	330,051	202,440		.*
MEVADA	642,902	499,076	143,026	46,1 22,2	1.17 3.50
NEN HAMPSHIRE	401,555	210,750	190,005	47.5	1.16
NEW JERSEY	3,792,519	2,335,994	1,456,525	38.4	1 4 电影
MEN MEXICO	1,400,040	905,002	421,030	20.0	Z. 34
NEW YORK- -NORTH CAROLINA	12,910,324	8,646,244 1,639,178	4,070,040	31.5	2:32
NORTH- DAKOTA	- 3,200,427 377,204	200,400	1,650,249 170,798	50,2 45,3	1.21
OH10 -	6,233,476	2,975,426	3,257,544	52.3	0.91
ORLAHOMA ,	1,052,349	1,112,117	740,232	40.0	1.50
ORESON	700,527	565,651	413,906	50.6	0.71
-Pennsylvania - <b>ance</b> e island	6,161,696 4,005,476	3,662,221 3,666,114	2,559,379	41.5	1.41
*	• • • • • •		205,342	7.0	13.32
SOUTH CAROLINA South Dakuta	1,707,410	962,106	625,312	46.2	1.17-
TEMPOSEE	303,671 3,490,888	172,676 2.126,126	131,621 1,378,683	43.3 39.4	1.31 1.54
7EXAS	5,390,182	3,510,577	1,071,005	34.7	1.00
UTAH	841,721	450,764	394,957	46,4	1.15
: VERHONT	1,250,000	1,141,705	114,355	. 9.1	1.11
VIRGINIA	4,157,062	3,135,038	1.022.024	24.6	3.07
MASHINGTON MEST VIRGINIA	- 3,292,326 1,514,634	2,021,097 092,110	1,260,429 422,524	38,4 41.1	1.60
MISCONSIN	4,477,507	3,229,965	1,247,622	41.1 27. <b>9</b>	1.43
MADWING.	-161,622	00,911	00,911	50.0	1.00
707AL U. 6.	8172,760,831	\$120,472,766	*852,296,063	30.3	2.30
AMERICAM BAHOA	5,433	•	5,433	100.0	6598
SUAN .	20,661		20,661	200.0	0.00
PUERTU RICO TRUST TERRITORY	1,500,499	696,599	•••,•••	54.0	0.05
AILDIM ISTUMDS	ĭ	ě	· ·	:	•
OUTLYING AREAS	61,534,993	8674,599	8844,394	55.0	9.02
U.S. S DUTLYIKS AREAS	8174,303,024	8121,163,367	353,140,457	30.5	5.20
				2702	

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



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## VABLE 7.10 -- DUTLAYS FOR PROSRAMS FOR DISADVANTAGED EMBULLEES UNDER (VEA) SECTION 110, SY SOUNCE OF PUROS: AND SY STATE UR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYOVER)

		CONTAAR	*****		
STATE OR OUTLYING AREA	TOTAL	NON- FEDERAL		PEDERAL AD PERCENT OF	MATIO OF MUN-FEDERA
	***********	***********	40400000000000000000000000000000000000	TOTAL	TO FEDERAL
LABAMA	3,203,743	1,030,401	1,453,242	, 44.3	1.26
llaska Mizona	(-423,305	235,006	100,299	44.5	1.25
MKANSAO	1,002,056	1,940,652	042,204	44.7	1.24
ALEPORNEA	2,624,735 30,093,190	1,345,629 10,309,583	1,259,106	40.3 39.0	1.07
OLORADO	3,400,471	2,304,133	1,345,330	36.2	1.77
OMNECTICUT ELAMARE	3,292,305	1,731,526	1,300,779	41.3	1.42
ISTRICT OF COLUMBIA	4,700,414	4,516,057	263,557	5.5	17.14
LORIBA	33,110,352	417,000 30,302,736	269,567 2,767,616	39.3 0.4	1.55
EONGIA	4,033,490	2,627,753	7,205,737	-45.0	•
amai; Bang	1,170,521	775,409	403,112	3.14	1.19
PANG LLIMOIO	010,176.	446,779	371,397	45.4	1.20
MOIANA	29,347,913 5,273,900	21,705,061 2, <b>95</b> 6,303	7,642,652 2,317,597/	26.6 43.9	2.44
DWA	3,275,946	1,746,436	1,329,510	•	1.20
MAAS	1,093,057	574,916	510,141	40.6	1.46
MTUCKY	3,669,691	1,910,459	1,751,232	47.4 47.7	1.11
Duisiana Aing	5,744,057	3,719,025	1,964,232	34.2	1,10
	1,347,363	000,164	507,219	34,6	1,50
lryland NBBACHUBETTO	9,524,609 4,962,647	6,776,335	2,740,274	20.9	2,47
CHIGAN	11,650,755	2,575,176 7,362,022	2,406,071	40.3	1.07
MESOTA	4,537,973	2,724,467	4,296,733 1,013,406	36.9	1.71
481881PP1	2,905,026	1,607,216	1,297,010	40.0 43.5	1.50 1.30
SOURI MTANA	3,095,036	1,929,671	1,966,165	50.5	3.76
BRASKA	4.433.34	¥		, ·	
VADA	1,432,260 1,034,650	742,065	609,403	40.1	1.00
W HAMPSHERE	750,443	701,033 374,600	25),617 375,843	24.5 50.1	3.00 1,00
N JERSEY	0,569,112	5,004,417	2,684,695	31.3	2.19
IN NEXICO	0,091,403.	7,505,036	500,307	7.8	12.00
MTH CAROLINA	03,040,050	76,570,171	6.477.074	7.0	11.02
MTH BAKOTA	5,667,013 ⁻ 606,000	2,730,904 * 305,000	2,932,029: 328,42 <i>u</i>	50.0 46.7	1.00
ito	46,753,682	40,390,296	, -		
(LAHOMA ·	3,575,240	2,104,326	6;354,706 1,470,922.	13.6	6,36
COOH	1,442,274	599,626	042,640	41.1 <b>50.</b> 4	1.43 0.71
MMBYLYANIA COE ISLAMO	10,469,243	6,530,125	3,939,110	37.6	1,66
•	2,030,356	2,375,146	455,210	. 16.1	5.22
WTM.CAROLINA WTM PAROTA	2,493,404	1,240,794	1,244,690,	49,9	1.50
WHE SEE	095,869 7,840,101	475,420	420,469	46.9	1.13
XAB	21,002,722	3,735,080 15,610,520	3,112,293	44.2	1.26
ÄH	900,553	A0,729	0,192,202 1027,024	20.4 91.1	2.52 0.10
AMONT	541,001	413,540	120,321	23,7	3,55
nginia Smington	4,067,190	2,627,904	695,966	46.6	1.17
ot Albeinia	4,732,079	2,390,260	2,333,019	49.3	1.03
8C0N814	2,063,900 12,753,036	901,070 10,002,033	1,162,162 1,951,005	56.3	0.70
ONINC	202,562	141,201	141,201	15.3 50.0	5.54 1.00
TOTAL: U.O.	8411,632,007	0300,952,707	0102,000,620	24.9	3,01
ERICAN SANDA	.17,335		17+335	100.0	0.00
AM	40,907	•	40,907	100.0	•.••
EATO RICU UBI TERRITORY	5,301,956	3,095,904	2,206,052	41.6	1.40
Mein Islande	•		<b>:</b>	•	•
Butt vine Assas	40 000 000			•	•
OUTLYING, WEVS	\$5,340,270	53,095,904	\$2,264,374	42.2	.1.37
8. OUTLYING AREAS	8416,993,005	\$312,036,691	4104,754,394	35,2	2.97

SOURCES U.S. SEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



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#### TABLE 7.27 -- DUTLAYS FOR PROBRAMS FOR EMPOLLERS MITH LIMITED EMBLISM PROFICIENCY UNDER CYEA) SECTION 110, BY SOURCE OF FUNDS: AND BY STATE OR DUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES GARRYDYER)

******************************		CUTLATE			
. STATE OR OUTLYING AREA	TOTAL	nonecoción de la compo NONe FEDERAL	22.22.	FEDERAL AS PERCENT OF 707AL	#A73D OF NUM-FEHERA 70 FEDERAL
LÃBAMA	374		374	100.0	
Lagra Rizona	32,039	13/039	19,000	57.9	0,00 0,73
REANGAS	500,073 20,046	380,074	200,444	39.4	1.54
M. SPORMEA	2,749,630	19,943 2,301,437	9,103 440,193	31.3 16.3	2.19 5.13
N.GRADO	44,437	•	24,637	100,0	
IMMEET LEUT ILAMANE	10,300		49.0,300	100.0	* 1.00
iotrict of columbia	96,600 24,693	40,000	36,000	37.5	1.67
MIDA	612,649	342,545	220,204	100.0 35.9	0,00 1,78
MAZI	5,503	•	5,503	100,0	9,00
MID	23,362	-	308.65	100:0	
la fioto Votama	17.237.694	1 + 0 1 3 + 1 8 6	274,406	21.3	0,00 3,69
<b>MA</b> =	* 43,034	8,079	35,755	•1.6	1,23-
WEAR "	62,505 46,939	29,812 7,202	32,693	52,3	0.91
MTHEKY	14,343	","	41,737 14,343	05.3 100.0	0.17 0.00
uzozama Ing	23,403		33,603	100,0	0.00
RYLAND	144,55	*. <b>.</b>	22,661	100,0	•
BOACHUGE778 IENZGAM	155,000	868,704	11,317	1.3	0,00- 76,78
MESOTA	248,186 414,000	22,174 207,000	- 226,612 207,000	71.1	0,18
601001661	-0	***************************************	407,000	50,0	1.00
BOOUR:	10,400	,	10,000	100.0	0.00
HTAMA BRAGKA	:11,720	· ;	11,720	100:0	-0.00
vada H Mamponire	56,555 46,000	\$3,196 46,000	3,359	5.0	15,84
n <del>Jejse</del> v	175,404	49,593	126,091	•,•.	• •
M NEKICO	197,624	•	197,624	72.3 100.0	1,34 1,01
RTH CAROLINA	11,411,997	10,441,367 8,434	970,610	0.5	10.76
NTH BAKOTĀ	10,000	6,707	(8,434) 4,203	50.0 45.3	1.21
10 Landria	99,158	17,062	01,296	•2.•	4.22
CACH	515 6,743	103	418		+725
MMBAFAVHIV	100,025	61,103	30,002	190.0 \$3.0	4,00 1,50
DOE SOLAND	853,910	225,792	20,126	ii, i	0.03
WTM CAROLINA WTM GANGTA	•	, •	•	•	•
WESSEE	2,976	1,400	1,40	50:0	1,00
kag - M	210,924	•	•	•	
NODAT.	6141464	90,413	120,511	50,7	0,70
REINIA	32,546	6,067	26,521	A.*A	
BMÍNGTON B7 VIRGINIA	321,007	314,099	7,790	01.4 2.4	0;23 40,2 <b>0</b>
ocoveju Bujus	877,230	727,700	149,522 149,522	50.0 17.0	1,00
• •	•	• ,	•	•	•
101AL- U.O.	021,075,294	017,301,631	03,773,003	17.9	4.50
Erican Bahda Im	5,329	•	\$,329	100.0	0.00
iato aico	200,000	106,000	100,000-	50.0	1.00
MET TERRITORY MEIN IOLANDO	•	•		:	:
OUTLYING AREAS	0205,329	8100.000	4145 434	-	
. 6 OUTLYING AREAS		0110,000	#105,32 <b>9</b>	51,3	0.95
** ~ ~~*******************************	\$21,200,623	017,401,631	<b>33,070,99</b> 2	10.2	4.47



### TABLE 7.18 -- DUTLAYS FUR ADULT-AND PUSTBECOMBARY EDUCATION UNDER CYEA) SECTION 118, 8Y SOURCE OF FUNDS: AND BY STATE OR UNTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYGYER)

	********	UI7LAY8``	**********	FEDERAL AS	RATIU OF
STATE OR OUTLYING AREA	7U7AL	n(No Federal	FEDERAL	PERCENT OF	NUM-FEDERA
LAĎAŇA	24,461;003	23,021,041	1,470,352	•••	15.40
<u>Labra</u>	305,364 19,632,215	169,202	196, 162	53.7	1.86
AIBONA	19,032,215	-13,745,330	1,000,005	7.2	12.90
rgānsa 9 Alipurnia	10,269,042	12,507,335 433,976,230	1,661,667	11.6	7.49
OL DRADU	26,717,158	22,507,420	4,209,730	15.0	5.35
OMMECTICUT EL'AMARE	12,076,244` 26,490,075	11,022,146	1,054,090	9.2	11.22
ISTRICT OF COLUMBIA	057,564	24,292,573- 634,945	197,502 222,659	0,0 20.0	123600 2.05
OR TOY	123,752,304	120,677,904	3,074,400	2.5	39.25
tone I A	00,930,732	30,090,142	4,842,500	11.0	7.45
AWAII Damo	6,010,713	6,300,591	\$10,122	7.4	12.10
LLINOIA	8,163,984 119,919,773	7,530,099	633,605 7,649,783	7, å 5, 9	11.00
HO S AMA	30, 503, 005	36,333,254	2,250,351	5.0	14.61
DWA LHRAB	\$1,779,992. 20,233,265	47,261,999	2,407,993	0.7	10.54
NTUCKY	10,420,402	10,300,762 12,410,459	1,046,503		9.96
DUZOZANA	29,275,956	25,335,401	3,940,675	13.9 13.5	6,20- 6,43-
THE	9,744,513	0,097,644	1,040,009	16.6	1.12
layland Lbsachube77a -	30,000,034	35,404,422	2,264,412	5.9	15.01
CHISAN	30,377,470 86,027,686	36,411,963 01,559,273	1,565,515 6,666,413	4-1	23.51
MME SO7A	00,522,171	59,962,000	4,500,171	5.2. 7.1	10.25 13.15
issīsšippi	16,649,225	13,761,309	1,007,920	i.i	12.65
BBOURÍ' MTANA	17,303,105	14,977,107	2,415,990	13.9	4,20
MARKA	12,195,912	11,525,101	670.011	5,5	17.10
VADA W MAMPSHIRE	3,266,346 579,565	3,000,050 316,200	197,736 263,385	6.1-	15.52
IN JERSEY	40,492,740		1	45.4	1.20
W MEXICO	8,452,907	66,427,573 6,932,619	2,265,167 [,] 1,720,288	3.3 19.9	29.33 4.03
M YORK	09,299,600	02,020,100	6,475,244	7.3	12.79
MTH CAROLINA MTH BAKOTA	121,369,119	519,414,404 5,215,416	2,354,715 724,547	1.9	59.54 7.20
ito	30,325,107	32,790,237	· -		
LAHONA	62,662,632	40,912,759	5,534,950 1,009,073	14.6	5.92 21.65
NEGON	11,622,360	10,471,412	1,150,968	-9.9	9.10
MMSYLVANIA	17,910,557	14,535,020	3,300,737	10.9	4.30
IOOC JOLAND	3,730,640	3,411,441	327,239	•,•	10.42
WTH CAROLINA WTH DAROTA	61,850,607 3,300,249	59,591,951 [*] 2,504,626 [*]	1,466,736 723,623	2.4	40,63
MMESGEE:	27,046,531	24,230,762	2,015,700	21.9 .10.4	3,57 0,61
XAO	05,204,101	57,000,021	0,243,360	12.6	6.76
AM .	14,224,000	12,947,736	1,239,142	0.7	10.40
R4647	520,452	291,767	550,485	43.9	1.20
reinia Bmine704	29,549,965	27,004,686 04,204,722	1,745,359	5.9	15.93
AT VIREINIA	00,227,071 2,096,120	1,022,104	3,943,149 1,073,936	4.5 37.1	21.37 1.70
OCCINOIN CONTING	121,250,140	110,037,515	4,410,633	3,4	26,46
107AL U.S.				10.6	8.42
,	82,134,562,646	\$2,093,202,558	\$131,299,400	4.2	15.26
MERICAN SANDA JAN	. 27,406 . 0,058		29,406 828,0	100.0 160.b	0.00 0.90
ERTU RICO	4,906,373	3/154/615	1,751,760	35.7	1.00
iust terrijory Irsim islamos		. :	<b>.</b>		:
-	<b>A A A A A A B B</b>	49.484.488	A4.9A422		. =.
DUTLYING AREAS	04,744,637	83,154,605	\$1,790,032	36.2	1.76
, OUTLYING AREAS	\$2,139,500,603	\$2,000,417,103	\$133,009,520	6.2	15.00



#### TABLE 7.19 -- OUTLAYS FOR VOCATIONAL EDUCATION (VEA) SECTION 129 PROGRAMS, SY AUTHORIZATION YEAR AND SOURCE OF FUNDS, AND SY PROGRAMS SCHOOL YEAR 1978-79

PROGRAM		FISCAL YEAR 1979		FISCAL YEAR 1978		
	TOTAL	NON- FEDERAL	FEDERAL	TOTAL	NON- FEDERAL	FEDERAL.
VOCATIONAL EDUCATION PROGRAMS HORK STUDY PROGRAMS COOPERATIVE EDUCATION PROGRAMS ENERGY EDUCATION PROGRAMS CONSTRUCTION FULL-TIME SEX EQUITY PERSONNEL /STIPENDS PLACEMENT SERVICES INDUSTRIAL ARTS SUPPORT SERVICES, FOR MOMEN DAY CARE SERVICES VOCED FUR DISPLACED MOMENAKERS /RESIDENTIAL SCHOOLS CONTRACTED SERVICES STATE ADMINISTRATION LOCAL ADMINISTRATION SECTION TOTAL	4,447,637,571 19,992,336 110,970,152 1,625,111 135,762,507 3,313,566 153,726 16,266,306 89,485,374 591,501 764,645 18,620,621 3,677,321 3,215,951 72,043,460 223,444,947	4,215,223,836 16,238,651 184,588,658 1,384,138 129,426,426 3,659,811 8 9,781,377 87,702,518 256,436 614,974 9,457,274 3,175,442 3,016,087 41,245,824 218,485,269	232,613,735 3,753,667 6,362,694 320,973 6,336,061 1,653,757 153,726 564,929 1,762,656 335,665 169,071 1,363,547 761,679 199,664 30,797,656 4,959,678	306,977,891 2,257,907 4,041,815 24,863 27,607,540 1,862,467 422,578 187,176 40,978,537 295,591 187,300 973,730 252,469 70,536 5,665,876 14,751,602	293,117,325 497,900 2,160,146 219 21,721,472 3,017 176,159 39,375,464 60,436 107,041 499,137 93,117 59,652 2,193,202 13,600,660	93,860,564 1,760,087 1,073,664 23,864 5,886,066 1,059,450 422,570 11,017 1,603,073 235,155 60,259 474,593 159,352 11,484 3,411,614 1,150,942

'NOTE: NO SUBSECTION TABLE FOR THE FOLLOWINGS

1/ STIPENDS--OHIO ONLY:

2/ RESIDENTIAL SCHOOLS-GEORGIA, KENTUCKY, AND PUERTO RICO ONLY.



# TABLE 7.20 -- OUTLAYS FOR YOCATIONAL EQUICATION PROGRAMS UNDER (VEA) SECTION 120, 8V SUURCE UP FUNDS, AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDVER)

vi.				FEDERAL AO	, <del>,,,,,,,,,</del> ,,,,,
STATE-OR DUTLÝING AREA		NON•			RATIO OF
COCCOCCOCCOCCCCCCCCCCCCCCCCCCCCCCCCCCC	**************		FEDEKAL Programmentalis	TOTAL	TO FEDERAL
LABAMA	46,992,979	43/140/669	· `\$.044237a		
LASKA	11,257,647	10,407,973	769,674	11.9	7,38
rizona Akanaas	20,055,276	25,727,642	3,120,234	6.0 10.6	13.63
	21,469,507	10,004,104	3,465,403	16.1	8.28°
aliporņī a	767,593,531	723,002,296	44,511,235.	5.6	16.24
BLORADO DIMECTICUT	\$0,115,436	-54/612/626	3,502,600	4.8	-15,59
ELANARE	40,520,071	36,795,001; ,	3,724,996	, ,,,,	7,88
ISTRICT OF COLUMBIA	29,013,201 -4,292,501	20,244,441	760,760	2.6	36.74
rdulev	-241,335,356	3,602,313 232,007,300	698,268 9,328,048	16.1°	2.55
EGREZA	45,977,564	• •	- ' '		24.07
AMAII	10,047,040:	57,935,449 9,829,717	0,041,935	12.2	7.20
DAMO?	10,621,206	0,005,712	1,010,131 1,015,576	9.4	7.65.
rringie.	334,112,812	325,797,402	.14,315,410	17.1	4,05
HOIANA	. 64,747,527	56,270,572	0,476,955	3,1, 43,1	31.50 0.04
DWA _	61;336,963	56,380,880	4,956,683		
MBAS	32,303,400	29,186,297	3,197,109	0.1 7.7	11.36
intucky?	59,030,296	53,035,339	.6,794,957	11.4	9.13 -7.01
Duisiana Ning	46,455,002	:37,014,376	7,441,406	10.0	5.24
· · · · · · · · · · · · · · · · · · ·	19,900,256	47,905,270	2,002,970	10.0	0.70
MYLAND	96,311,971	01,007,253	9,224,716	10.2-	0.79
ASSACHUGETTS  CHISAM	100,000,205	159,214,614	.7,445,591	4,5	-21.30 «
	170,920,552	164,037,017	· 6,002,735	~4.0	23.63
IME801A' I861881PP1 '	96,664,263 25,710,902	-89,000,000 -22,994,235	7,004,2 <b>03</b> ,2,724,747	7.3	12.71
880VAI.	55,881,388	47,570,507	0,302,073	10.6	9.44
MTANA- LORASKA				14.9	5.73
VAAA	19,413,611	16,056,514	2,557,297	13.2	6,59
W MAMPSHIRE	7,907,100	7,575,463 -6,752,040	775,781= <b>955,06</b> 0	7.5 12.1	12,37
W JERSEY	145,005,949	-		3	7.20
W WEXTCO	24,243,651	137,501,290 21,633,351	7,504,651	5.2	14.33
W YORK	522,302,624	500,150,426	2,610,380 22,212,198	10.0,	0.29
MTH CAROLINA	175,756,149	163,651,371	11,904,770	4.3	22.52
MTH DAROTA	11,491,109	10/392,035	1,077,154	• • • • • • • • • • • • • • • • • • •	13.76 9.45
	230;313,496	212,676,737	17,634,759	•	
Lanoná-	70,024,289	. 65,737,887	-4,684,480	7.7	12.06
EOON .	17,607,979	13,914,031	3,773,940	6.0 21.3	14.08
MMBYLVANIA	250,224,145	236,950,606	13,265,539	5.3	3,69- 17,06
GOE, I ÓT WHO	17,404,046	16,275,633	1,200,413	6.0.	13.47
uth Carolina	98,516,811	84,591,506	5,925,305	6.5	14.20
MIN DAKOTA	6,811,596	5,054,644	1,150,052	18.6	-4.37
MAD.	79,819,292	72,019,759	7,799,533	9.0	4.23
AH .	184,124,193 <b>3</b> 9,200,087	165,369,605 36,173,799	10,754,500 3,025,200	10.2	50,0
RMQNT		,		-	11,95
REINIA	7,754,393 96,557,658	6,789,170	765,223	12.4	7.03
SHINGTON	182,024,340	90,636,426; 116,499,600	5,921,432 6,324,740	6.1	15.31
ST VIRSINIA	400,005,25	22,100,319	3,010,403	5.1	10,42:
SCONO IN ""	91,094,753	05,955,925	5,136,626	12.0 500	7.35 16.73
OHING	3,674,156	3, 104, 870.	489,270	13.3-	,6,51.
TOTAL U.S.	\$4,915,145,313	84,495,109,216	\$320,006.097		14.04
erican (Bahoa	469,260-	381,300	87,960	10.7.	4.33
AN .	110,709	•	110,769	100.0	0.00
ERTO RICO	19,040,100.	12,050,045	6,189,455	32.5	2.00
uet territory: Rein islands	•	•	0	•	:
OUTLYING AREAS	517,620,149	813,231,945	14.364.344	• • •	_
D O. OUTLYING AREAD	•		16,300,204	35.6	2,07
IN A CAIPATUM VKEVA	84,034,015,462	84,500,341,161	6320;474,301	6.8.	13.01



#### TABLE 7.21 -- DUTLAYS FOR WORK STUDY UNDER (YEA) SECTION 120, SV SOURCE OF FUNDS. AND SV STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDYER).

	*******	FEDERAL AS	MATIU OF		
STATE OR OUTLYING AREA.	707AL	NON- FEDERAL	FEDERAL	PERCENT OF TOTAL	NON-FEDERA 70 FEDERAL
LABAMA' LABMA'	i <b>5,110</b>	•	15,110	100,0	•.••
ir 20ma Ir angar	211,945	176,918	35,427	16,5	5,05
ALIPORII A	884,572	575,192	307,340	35.0	1.06
9L00A00	130,405	67,524	71,561	51.5	0.94
Bringetieù? Elanare	43,728	25.00	10,728	-42.8	1.33,
ibtrict of Columbia Logida	21,001 <b>50</b> 0,947	15,900 262,639	5,101 -327,308	24.3 55.5	3.12
CORGIA	, •	. •	•	•	
AHAII. Dang	66,744 43,668	37,768 9,357	30,976 34,251	45.1 78.5	1.22
LLIMDIS. MDIAMA	861,638 552,836	304,620 276,419	557,018 276,417	64.6 50,0	0.55 1.00
ONA .	•	•	. •	•	•
ANGAS ENTUCKY	- 36,141 327,340	18,070 65,727	18,071 201,411	50.0	1.00
OUISIANA AINE	197,000		197,088	100.0	0,25 0,00
ARYLAND	-213,636:	13,032	200,006	+3,5	•.07
ASBACHUSE778 ICHIBAN		` •		•	
imegota Ippideippi					
IBBOURI	-152,176	<b>65,771</b>	06,405	56,0	0,76
ontaha: Corabka-	46,723	22,954	23,769	50.0	0:97
EVADA EN MANPSHINE	30,698 315	18,490	:20,000 252	51.7 80.0	0,93
EN JEROEY	1,719,304	1,359,070	360,314	21.0	3,77
EN MEXICO EN YORK	2,105 11,713,821	11,337,063	2,105 376,758-	100,0 3,2	30.09
ORTH CAROLINA ORTH BAKOTA	239,607 63,653	74,404 21,679	165,203	40.9 65.9	0,45 0,52
NEO .	422,850	84,570	338,280	80,0	0,25
KLAHONA RESON	121,101 2,167	105,187	15,914 2,167	13.1	6.61 6.60
ENNBYLVANIA NOOE ISLAND	401,545	104,216	237,349	59.1	0.67
DUTH CAROLINA	336,076	323,027 27,122	13,000	3. <del>*</del> 47.4	24,72
OUTH-DAKOTA	10,099	7,049	24,496 9,050	50.0	1.11
ennessee Exas	341,128 <b>99</b> 0, <b>90</b> 0	341,128 60,147	430,753	•.• •3.•	0.06
7AN -	• ,	0	0	•	•
ermom7 Irbinia	3:0,4 <b>03</b>	83,241	227,162	73,2	0,37
abhineton. Est virginia	177,771 196,118	\$7,72\$ 115,704	120,046 00,414	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,40 1,44
ISCONOIN YONING	625,602.	504,727	40,7075	6.5	14.31
707AL U.S.	422,178,519	616,704,713	45,473,006	24.7	3.05
HERECAN GAMOA	5,513	3,000	2,513	45.6	1.19
VAN VERTO`RICO	12,075 54,136	20,038	12,075 25,300	100.0	0.00 1.14
RUCT TERRITORY IRBIN ISLANDS	,	,	š	•-	
OUTLYING AREAS	671,726	331,834	\$39,60ê	55,6	0.00
.S. S DUTLYING AREAS	\$22,250,245	416,736,551	-35,513,694	24.0	3.04



### TABLE 7-22 -- DUTLAYS FOR COOPERATIVE EDUCATION PROGRAMS UNDER (VEA) SECTION 120, SY SOURCE OF FUNDS. AND BY STATE OR DUTLYING AREAS SCHOOL VEAR 1976-79 (INCLUDES CARRYOVER)

	OUTLAYS -			FEOERAL AS	NA710 OF
" STATE OR GUTLYING AREA	TOTAL	NONO ·	FERREN	PERCENT IN	HON-FEDER
************************			**********		*******
laska Laska	4,352,491	4,456,925	295,766	4,4	13,72
RIZONA	1,921,369	1,417,833	502,556	26.2	2.02
irkāngas :Alifornia	2,891,734 3,930,313	2,500,120 3,725, <del>0</del> 93	391,006	13,5	6.34
	-	31/631443	284,320	. 5,2	10.20
OLORADO OMMECTICUT	597,895 2,884,147	333,014 2,370,570	264,661	44,3	1.26
ELAMARE ISTRICT OF COLUMBIA	- 0	- · · · · ·	425,577	15,2	5.59
FORION OF COLUMNIA	303,771 26,507,033	159,390 26,187,486	144,381 319,627	67.5 1.2	1.10 01.93
EORGIA	13,469,963	12,672,039	· •	•	
AMAII	310,990	111,710	737,064 207,200	5,5 65,6	17.17 -0.54
SAMO LLINOIS	646,769	524,992	123, 977	19.1	4.23
HOIAMA	33,616	14,548	17,000	56.7	0.76~
OWA .	•	•,	•		
ANSAS ENTUCKY	289,615	140,000	142,727	42,3	1.03
OUISIANA	577,62 <u>1</u> 1,243,647	116,674 866,514	460,947 377,333	79.6	0,25
AINE	0	000,512	.0	30.3	2.30
ÄRYLAND A <b>SS</b> ACHU <b>SE</b> 77 <b>s</b>				•	•
ICHIBAN	3,316,240	3,070,346	245,074	7.4	12.49
IMME807A 1881881PP1				•	•
	1,651,202	1,510,000	134,594	4.2	11.27
I BBOUR I DNTANA	•	0	•	•	•
EDRABKA .	100,544	40,954	\$1,570	51,3	~ 0.95
EVADA En mampamire	501,131 275,475	466,414 122,441	94,217 153,634	10.6	4.32
EN JERSEY				55.4	4.80
EN NEXICO .	5,100,044	5,027,033	139,611	2,7	35,96
EN YURK DRTH-CAROLINA	0,724,016	0.020.071	295,925	3,3	29.16
DATH DAKOTA	7,746	4,146	3,442	44.5	1.15
110 .	25,705,020	25,204,070	420.942	1,0-	60.Ó7
KL AHOMA	2,943,753	2,793,332	170,421	5.0	10.39
reoch Enmeyl vania	477,251 1,046,485	446,597 648,936	-30,654	6,4	14.57
HOE TALAND	465,291	402,690	405,449 62,661 -	36.7 13.5	1.50 6,43
NITH CAROLINA ^L	254,634	71,101	102,733	. 72.0	0,30
DUTH DANGTA	590,027	549,737	40,290	6.6	13.64
[NHESSEE [XAS	<b>621,363</b>	700,342	33,041	4.0	23.00
TAH	ř	ĭ	i	:	:
ERNONT	300,702	340,702	•	0.0	•
irbinia Abnington	274,331 423,3 <b>6</b> 4	132,373	141,750	51.7	0.93
ist. Virsinia	1,401,240	44, <b>960</b> 1,174, <b>99</b> 9	370,344 306,249	89.4 20.7	, 0,12 3,04
CONTING	•	0		•	•
TOTAL U.S.	8114,656,171	8104,740,704	87,989,467	•••	13.50
MERICAN BANGA:	21,000	• • •			
JAH -	, O,	7,500 0	13,500	64.3	0.56
JENTO RICO IUST TERRITORY	332,796	2	332,796	100.0	0.00
IRBIN-IOLAHOS	ě	•	ě	:	•
DUTLYING AREAS	8353,796	87,500	\$346,296	• 97,9	•••2
.S. O DUTLYING AMEÁS	\$115,011,967	8100,750,204			•
THE TREE PROPERTY.	411314111441	-11.30160-	19,255,763	7,2	12,93



## TABLE 7.23 -- DITLAYS FUR ENGINE EDUCATION PROGRAMS UNDER (VEA) SECTION 120, SY SCHOOL OF FUNDS AND SY STATE OR DUTLYING AREAS SCHOOL YEAR 1970-79 ... INCLUDES CARRYUVERS

,	**************************************	**************	P		
STATE OR DUTLYING AREA	TOTAL	MON- FEDERAL	**************************************	FEDERAL AS PERCENT-UF TOTAL	ratio uf Non-Federal To Federal
- ALABAMA ALABKA	•	•	•	•	_
Añizona Amambas Caliponija	37,500 3,664	12,500 1,227	25,000 25,000 2,457	66.7 66.7	• .s. • .s.
COLORADO COMECTICUT	196,171	34,407	117,604	, • 7 <b>5.</b> 4	•.33
OCLAHARE DISTRICT OF COLUMBIA	3,00		3,00	100,0	0.00
PLOREDA	48,946	00,760	200	oi z	443,43
MANA I I	•	•	:	•	•
ILLINGIS INDIANA	•	i		•	•
IONA	•	•	i	• •-	• .
KANSAS - KENTUCKY		0	•	•	•
- LRUTATANA - MATKE"	24,590	•	24,590	100.0	0.00
MARYLANO	•	•	•	•	•
MASSACHUSETTS MICHESAN			, ,	•	:
HIÑNEÓUTA :HIGGIGGIPPI	Ĭ			•	•
MIĜBOURI,	•	•	•	•	•
Y MONTANA PROPADNA	Ĭ		. 0	•	•
meyada Meh Mampahire	į	š	•	•	•
MEN JERBEY	90,471	1,344	47,127°	•	•
NEN ADUK NEN MEXICO	1,115,602	1,079,713	35,000	10.6	0.01
NORTH CAROLINA NORTH DAKOTA	74,343	74,343	33,000	3.8	30.08
OHIO	10,977	7,977	11,000	0.0 50.0	•
: OKLAHOMA OREGOM PEHMBYL YANI Á	10,477		10,477	100.0	0.73
MHOSE ISLAND	•		6	•	•••
SOUTH CARDLINA	3,554	6	-3,554	100.0	• ••••
TEMME BACE TEXAS	•	0	•		•
- UTAH		0 •		•	
VERHONT VIRBINEA	•	•	0	•	
-WASHINGTON WEST VIRGINIA	, ,	•,	<b>0.</b> 0	•	
MESCONEIN MYONING	13,850		13,659	100.0	0.00
TOTAL U.S.	\$1,649,194	81,304,357	•	•	•
AMERICAN BANDA	4	-113441321	8344,037	20,9	3.70
BUAN PUERTO-RICO ( )	Ġ.	ě	• .	•	. 0
truot terřitěrý Viroim-islands		ě	0	•	•
OUTLYING AREAS	-			•	•
U.S. & OUTLYING AREAS	80		80	•	•
wermiene nabas	\$1,649,194	41,304,357	8344,637	20.4	3.78



### TABLE 7.24 -- OUTLAYS FOR COMSTRUCTION UNDER (VEA) SECTION 120, BY SOUNCE OF FUNDS AND BY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (IMCLUSES CAMPYOYER)

STATE OR GUTLYENG AREA	OUTLAND			FEOERAL AO	RATIO OF
	TOTAL	· nun- Federal	FEDERAL	PERCENT OF TOTAL	NON-FEDERAL TO FEDERAL
.AQAHA	1,499,352	1,217,232	402,120	. 20,4	2.52
.ABKA 12 20MA				•	•
ñanbab Lipornia			i.		•
LORADO MNECTICUT	435,536 12,463,642	310,200 12,463,042	125,330	20.0	ž,40
LANARE STRICT OF COLUMBIA			Ĭ	•	:
ON 194	34,905,527	34,905,527	•	•:•	:
Drgia Maii	3,000,074	3,193,514	615,560	16.2	5.19
ANO .	· ·	, ;	}	•	•
lingis Oiama	•	•	• ,		
₩A <b>#&amp;</b> A <b>0</b>		. !	•	•	•
NTÚCKY	1,156,14	1,156,146	:	•:•	•
UIĐIANA ING	:	•	•	•	•
RYLAND BOACHUSET70 -	35,000,000		•	.•.	<i>6</i> .
Chigan	33,000,400	35,000,000	` ·	•••	i.
NNESOTA BEISBIPPI	5,440,000	3, 373, 052	2,206,946	40.4	4.40
BOOUR 2- NTANA	1,400,000	1,400,000	•	•.•	•
DAGKA				• .	:
VADA N HAMPOHERE	•	• 1 •		•	,
M. JÉASEY M. MEXICO	4,196,942	2,000,221	2,090,221	50.0	4.00
N YORK RTN CAROLINA	2317.003		231,003	100.0	
ATH BANGTA	3,446,904	3,201,259	237,645	•••	13,50
IO Langria	9,739,051	9, 052, 043	• • • • • • • • • • • • • • • • • • • •	7.0	13.19
COOM , , ,	230,319	203,519	26,000	11.6	7.59
OOE TOLAHO MAYLYANTA	11,550,476	10,992,520	`565/940 0	4.9	19.42
UTH" CARÓLINA UTH" BAKOTA -	4,019,405	4,019,405	•	•.•	•
MMESSEE	• •••	. 000		•:•	•
AN A	· 🚦	•	<b>♦</b>	•	
AMONT	45,794	45,794		0,0-	•
reinia- Ominetom	6,024,736 1,077, <b>9</b> 52	2,947,020 1,727,952	3,037,710 150,000	50.4 0.0	.v.90 11,52
87 YIRGINIA 8comoin	649,041 24,737,763	649,641 23,061,907	1,677,056	0.6	13.74
DHI HE	•	•	,,,,,,,	•	13074
TOTAL U.S.	\$103,370,047	0151,147,000	<b>•</b> 15'555'14 <b>•</b>	7.5	12.37
ERZÈAN BANGA AN		:	•	•	• .
ERTO RICO VAT TERRITORY	- Č	į	<b>,</b> •	:	•
BEÎN -ISTANOS ORA ARMATIONA		•	•	•	•
QUTLYING AREAB	<b>, 10</b> .	**	30	•	• *
A. O OUTLYING AREAD	4163,379,047	0151,147,090	\$12,222,149	7,5.	12.37

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



### TABLE.7.25 -- OUTLAYS FOR FULL-TIME SEX EQUITY PERSUNNEL UNDER (VEA) -SECTION 120, SY SOUNCE OF FUNDS. AND SY STATE OR OUTLYING AREAS -SCHOOL YEAR-1978-79 - (INCLUDES, CAMRYUVER)

	Pacássiassassassassassassassassassassassassa			•	
STATE OR OUTLYING AREA	TOTAL	NON- FEDERAL	· · · · · · · · · · · · · · · · · · ·	PEDERAL AD PERCENT UP	RATIU UF
**********************	*	A CARLO DE C	FEDERAL	TOTAL	TU FEDERAL
LÀBÁMÁ LABRA	44,374	1,340	45,024	43,6	Su. v
RIZONA	70,336	•	70,336	108.0	0.00
AKAMBAO	30,029 62,657	1,995	30,029	100.0	0.00.
ALIPORHIA	42,500	1,443	60,662 -62,500.	96.0 100.0	0.03
OLORADO DMNECTICUT	49,650	•	49,450	100.0	0.00
ELANARE	50,920	0	50,920	100.0	U.00
INTRICT OF COLUMBIA	50,409 49,487	3,744	50,465 49,407	92.0	0.00
rouiev	39,723		39,723	100.0 100.0	0.00
EGNOJA, ANAII	60,114	9	06,114	100.0	u.00
DANO	44,335		44,335	100.0	U. 00
LLINDIO	\$1,096 40,023	11,380	39,716	.77.7	0.29
MOTAMA.	59,504	š	40,023 57,504	' 100.0 100.0	1,16. 1,11
DHA	\$6,737.	•	Šo;,737	100.0	0.00
ingas Intucky	45,713	2,042	42,771	93.6	0.07
DUIOIANA	41,665	•	41,665	100.0	0.00
AING.	75,200 47,054	•	75,200 -47,054	100.0 100.u	0.00
ARYLAND	47,926	•	47,926	100.0	0.00
A88ACHU8ETT8	50,000	ŏ	50,000	100.0	0.00
ICHIBAM IMMEBOTA	124,736	0	124,730	100,0	0.00
881881PP1	50,000 43,001		'50,000 '43,001"	100.0	0.00
BÉOURI	65,496	•	.64,496	100.0	<b>0.00</b>
MTANA SPADKA	45/120	Ď,			33
VADA	50,000	0	45,120	100.0	0.00
G HAMPSHIRE	39,700	ŏ	50,000 39,700	100.0- 100.0	0.00 0.00
in Jensey.	50,000	•	50,000	100.0	0.00
N MEXICO	20,073		20,073	100.0	0.00
MTH CAROLINA	1,673,403	1,623,403	50,000	.3.0	32.47
MTH BAKOTA	45,560	0,417	44,410 37,143	100.0 01.5	0.23
110	02,056-	9,307	73,649	••.•	0.13
ILAHOMA TESON	57,540	92	57,456	99.4	U.00
(NHOYL VANIA	72,304	•	72,304	100.0	0.00
iopeIsland	26,197 38,552	0	20,197 30,552	100.0 100.0	0.00
WTH. CAROLINA	47,213	0	47,213	100.0	U.00
OUTH DAKOTA	40,494	ō	40,494	100.0	0.00
HMESSEE	45,447	9	45,447	100,0	U. UO
ÄH.	67,704 70,437	0	67,704 70,437	100.0	0.00
RHONT	20,002	٠	20,602	100.0	0.00
ROINIA	59,191	Ō	59,191	100.0	0.00
LBMINGTON LOT VIRGINIA	60,515	•	00,515	100.0	0.00
SCONOIN	46,710 105,394	0	46,712	100.0	0.00
OHENS	57,090-	i	105,394 57, <b>09</b> 0	100.0 100.0	0.00
1014L U	84,356,035	\$1,602,020	\$2,693,267	61.0	9.42
RRICAN BAHDA	0	•	•	•	•
NATO RICO	20,000	Ů	20,000	100.0	•
IVO' TERRITURY	20,000	ŭ		ina*n	0.00
HELY ISLANDS	ŏ	ě	ě	:	•.
DUTILYTHE AREAD	\$20,000	10	420,000	100.0	U.00
BHOUTLYING AREAS	84,376,035	81,462,020	82,713,207	62.0	0.61



#### TABLE: 7.86 -- GUTLAVS FOR PLACEMENT SERVICES UNDER (VEA) SECTION 120, 87. SOUNCE UP FUNDS, AND 87 STATE OR GUTLAVING AREA: SCHOOL VEAR 1978-70 CINCLUDES CARBOVERS

	•	DUTLAYS			
STATE OR OUTLYING AREA	TOTAL.	HONO FEDERAL	FEOERAL	FEDERAL AS PERCENT OF TOTAL	ratiu of Num-fedena To federal
NLÁBAMA		* * *	•		,
Laora Alsoma Mangas	i3.022			<b>.</b>	•
Miangas ALIPONIIA	,	1,752	14,270	• • • •	-0.16
	. 934,525	017,217	17,300	2.1	47.22
Divide 7 Icut			•,	•	•\
CLANARE ISTRICT OF COLUMBIA	:		i	<i>,</i> :	•
rautèv	111,244;	111,244	Ĭ	•:•	•
Bongsa Anais		•	•	•	
pang Llings 8 Wigha:		u.	•	:	:
ibiana:			:		· .
DNA _	•	•	•	•	•
Meas Fathery	į	Ĭ		••	•
BVLOI ANA; AINE				•	• •
myland.	<u>,</u>	•	<b>'</b>	•	•
MAGACHUARTTA	50,787	3,143	47,624	<b>•</b> 5.•	•.• <u>?</u>
léhigan Impsota: 1001001PP1			*	•	•
Mijosiępi	i	•		•	•
BOOURS/ x MTANA -	•	0.	•	•	_
ORADKA		• •		•	:
in white anime	•	į	Ĭ		• • '
N JERSEY	¥ À.	*	•	•	•
N NEXICO				• ¹	•
MTH CAROLINA- MTH DAKOTA	0,367,615	0,099,501	267,434	2,5	30,29
e	•	ě	ě	:	* • • •
ISO . LANDNA i	•	. •	•	•	•
TARK.	14,520		14,520	100.0	•:••
DOG BOLAND DINGYE VANIA	, ` ;	:		•	•
OTH CAROLINA	201.000	201,000	•	<b>.</b>	•
WTH DAKO7A MMEGGEE	2	.,.,,	· ·	•••	•
NAS An		· •	*	•	• ′
	, •	ė	•	•	·
Might - Meine A	:		• 🖠	•	•
anington By Verginia	<b>2</b> 56,937		, ,	. • .	•
SCOME I N. GNIMS	221,537	256,737 221,537		0.0 0.0	:
~~.		•	•	•	·
TOTAL V.S.	010,151 ₉ £67	A9,793,111	8350, 156	3.5	27.34
ĒRIÇAŅ, BAĤOĀ AN	- •	:	•	•	•
ERTO RICO NOT TERRITORY	* 322,215	94,425	237,790	73:0	0.34
REIN IOLANDS	, , , , , , , , , , , , , , , , , , ,	•		•	•
OUTLYING AREAG.	0322,215	804,425	8237,700	73.0	0,36
S. S OUTLYING AREAS	A10,473,402	89,077,536	8595,946	5.7	-10,57

SOURCES U.S. DEPARTMENT OF EDUCATION, MATIONAL CENTER PUR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



#### TABLE T.27 -- OUTLAYS FOR INSUSTRIAL ARTS UNDER (VEA) SECTION 120, SY SUURCE OF FUNDS AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYOVER)

TOTAL	NONe FEDERAL	*	FEDERAL AO PERCENT OF	RATIU OF
<del></del>		PEOEHAL	TOTAL	NON-FEDERAL TO FEDERAL
	<del></del>	************	************	**********
375,645 366,301	361,716	.23,929	6.4	-14.70
140,004	366,361 .72,604	97,402	9.9 54.6	•:•3
40,121,466	39,131,250	77,049 <b>990,2</b> 16	14.2.	39.52
•	• •	•	1	••
2,104,504	2,0%,66	*,••	•	213.00
13,309,561	13,309,561	•	•	•
0,851,994	66146.266	43,720	•	97.10
140,201	140,261	•	.•.	•
:	•	•	:	
<b>»</b> ••	•	•	•	, <b>•</b>
<b>••.</b> 131	•	<b>88</b> , 131	144.4	
	:		•	•
•			•	•
21,895,935° 31,220	28,751,670	1,104,257	.5,2	10.14 .
•	2.574.254	•	•	••••
1.		6561440	-	10.23
			•	•
1,122,412		40.00		:
•			_	04.10
, 9,	. 0	223,007	3,4	20.49
1,593,521	1,593,521		•:•	•
	• •	•	0,0	•
6,157	3,136 6,009	- 96,602 - 96	96.0 1.1	0.03 09.54
		•	•	•
-5,259,000	5,194,623	64,377	1,2	***
•	:	:	•	•
1,030,000	1,030,060		9.0	:
•	,	i	•	•
14.450.334	14.050.134	•	<b>.</b> •.	•
•	0	44.224	٠.	
	.,,,,,,,	44,2,4	•	33,64
8125.421.494	8121.607.386	43.313.344	•	•
				37.40
10,444	0	10,644	180.0	0.67 0.00
3,317,044	3,437, <b>074</b>		1.9	52,17
•	•	•	•	•
85,442,017	05,270,594	\$172,223	3,2	30.60
\$130,463,911	\$127,077,982	83,345,929	2.6	37.93
	\$40,573 40,121,406 2,100,506 13,300,501 0,251,004 140,201 21,005,035 31,220 2,030,302 070,550 1,122,017 6,570,001 1,503,521 704,301 00,131 1,503,521 704,301 1,503,521 704,301 01,127 1,503,521 1,072,140 115,070 10,004 5,317,000	\$40,573	\$40,500	10.000



## TABLE 7.20 -- DUTLAYS FOR SUPPORT SERVICES FOR MOMEN UNDER (YEA) SECTION 120, BY SOURCE OF FUNDS. AND BY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDYER)

_		UUTLAY8			
STATE OR DUTLYING AREA	TOTAL	PEDERAL	- FEDENAL	FEDERAL AS FERCENT OF TOTAL	4ATIU UP NUM-FEDERA TO FEDENAL
LABANA	•	•	•	•	
LASKA Elsona	25,000		25,000	100;0	e.uo-
mangas NL Iform I a	307,615	273,456	124,159	31.2	2.20
LORABO HMECTICUT	•	:	- 0	:	•
LINARE STRICT OF COLUMBIA	*8,45 <u>1</u>	•	0,45	100.0	0,00
OWIDA	16,000	16,000	•	•;•	•
orgia Wali	:	2	• .	•	•
ANO LINGIS		į		•	:
Olana.		i	•	:	•
MA- MBAS-	•	:	:	•	•
NTUČKY WISIANA	-401	•	••፤	100.0	0.00
INC	••	ě	i	:	
Ryland SSACHUSETTS	4,550	•	4,550	100.0	••••
CHIGAN CHICAGO	0,313	Ĭ	0/313	100.0	0.40
961891PP1	•	;	3	· •	:
SSCURI NTANA	•	•	0	ě	•
DAASKA		Š		•	•
VABA M HAMPSHIRE	•	•	•	•	:
n' <b>Jerse</b> y- n-Mexico-	•,252	<b>•</b> -	9,252	*.	•••
H YORK	4,23	Š	, <b>7/252</b>	190.0	•
RTH CAROLINA RTH DAKOTA	•	•	•	•	•
IO	:	•	•	•	• l
600H ·	164,129	Ĭ	164-129	100:0	•:••
ODE ISLAMO	į	•	•	•	•
UTH CAROLINA UTH BAKOTA	•	•	Ó	. •	•
MMESACE"				•	
XAB AH	51,320	1,565	49,763	•7.•	•.•3
RMONT REINZA-	•	ų.	0	•	•
SHINGTON	90,071	1,735 -	00,936	<b>*0.</b> 1	•;•2·
ât vireinia Beombin	19,190	53,66 <u>5</u>	10,952 67,026	90.7 -74.0	0.01 0.35
ONING TOTAL U.S.	\$007,692	• • • • • • • • • • • • • • • • • • •	6 1570,220	44.3	•.5>
ERICAN SAHOA	•	<b>4</b>	4	•	
AN .		Ĭ		•	•
EATU AICO VOT TERRITORY	i	•	·	•	•
ueiń istanos	•	•	•	•	•
OUTLYING AREAS	80	80	50	. •	•
8. 8 OUTLYING.AREAB	1007,092	0316,072	4570,220	64,3	0.54

.SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



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## TABLE 7.20 -- DUTLAYS FOR DAY CAME RERVICES UNDER: EVEAD DECTION 120, BY SOURCE OF FUNDS: AND BY STATE OR DUTLYING AREAS . SCHOOL YEAR 1974-TO . CINCLUSES CARRYDVERS

400700000000000000000000000000000000000	******************	OUTLAYS "	•	************	·••••••••
STATE OR GUTLÝSNÔ AREA	TOTAL .	NÜNO FEDENAL	, FEDERAL	FEDERAL AD PERCENY OF YOTAL	MATIU OF MON-FEDERAL TO FEDERAL
**********************	************	**********	**********	**********	••>••
ALAGAMA ALAGMA ARESONA	•		. •	•	•
ART SONA ARKANGAS	- 87, 30		27,300	100,0	•:••
-CALIPORNIA	\$46,476	543,163	23,713	4,2	22.01
COLORADO COMECTICUT	•	•	•	•	•
SQLAMAGE SISTRICT OF COLUMBIA .	\$ <b>9</b> \$		395	100:0	
PLONZON	44,000	44,000	•	<b>9;</b> 0	•
OCONO JA	•	•	•	•	•
MMAIS SULTHEIO SULTHEIO				:	•
INDIANA	i	i	•	•	••
IONA: RAMBAO (	•	•	•	•	•
MENTUCKÝ LOVESTANA	3/50		0,51	100,0	0:00
MAINE	•	ţ	<b>*</b> • • • • • • • • • • • • • • • • • • •	:	• • t
MARYLANG	16,367	•	10,307	100.0	0,00
MASSACHUSETTO . MICHIGAN		ě	•	•	:
M\$MQ\$019P1 M\$MQ\$019P1	.•	- <del>V</del>	<b>9</b>	:	•
ASSOCIAS MONTANA	•	.0	•	•	•
MEGRA 24A	•	<b>:</b>	•	•	:
nevada». New Mannagare		**	•	•	•
n <u>éu zjansk</u> y	•	•	•	•	•
MEN NEXICO MEN NEXICO	•		:	•	
MBRTM CAROLIMA MRRTM: BAROTA	9	•	•	•	
Mio	•	•	•	•	•
DREAMONA BREBON		•		•	•
Penngylyahia Mnoge islang	•	o o	i	•	
SOUTH CAROLINA .	12,007	#55	12,042	13.3	9.07
BOUTH BAKOTA TEMMESSEE	. 0		•	:	• ,
teras Utam	57,906	1,421	56,965	99.2	0.02
VERHONT	•	•	•	•	•
VIRGINIA MASHINGTON	\$3,270	16,42/	`36,651	67.2	-0,45
HEOT VINGINIA HEOT VINGINIA	165,346	98,459	72,007	44.1	1.27
HÝÔŇ Š MG	• •	•	•	•	
TOTAL U.O.	Å971+345	0722.015	0249,330	25.7	2.90
Merican Bànda Man	•	•	•	•	•
PVERTO-RICO IAV67 TERRITORY				:	• ,
AINEIM ISTUMOS	•	3	. 0	•	• ′
OUTLYING AREAO	10	••	••	•	_
V.S. 8 OUTLYING AREAS	0071.345	0722,015	0249,330	25.7	2.10
	. 44111949		V	£701	



# TABLE 7.39 -- OUTLAVE FUR VOCATIONAL EDUCATION FOR DISPLACED HOMENARING UNDER (VEA) SECTION 120, BY SOURCE OF PUNDS, AND BY STATE OR OUTLYING AREAS SCHOOL YEAR 1970-79 (INCLUSES CARRYOVER)

OTATE OR GUILVING AREA	TOTAL	MONO FEDERAL	PENIEN	PEDEMAL AD PEMCENT UP TUTAL	RATIO OF NUN-FEWERAL TU FEDERAL
*******************				********	
Masaha Masaha	2,040	•	2,000	100.0	0.00
ARIZONA	6,727	•	. 6,727	100.0	1.00
ARK ANSAO -	20,417 10,015	•	20,417	:00.0	0.00
California	\$\$0,036	11,374	10,415 206,664	100,0 76,2	1.11 1.14
COLORADO	42,225	212	42,013	**.5	0.01
FORMECTICUT MELANANE	12,003	_ •	12,003	100.0	
DISTRICT OF COLUMNIA	55,000 4,074	20,000	5,000	9.1	10,00
PLOR 10A	114,797	113,092	4,074 × 1,745	100.0 1.5	. 64.79
DEDREIA	•	•			. 00000
MANAZZ	20,300	9,986	10/320	50.0	•:•7
IOANO . ILLINDIO	4,697	•	4,697	100,0	:
INDIANA .	66,046 0,750	66,846 2,548	6,250	0.0	•
IOMA				71.4	1,41
KANSAO	268,791 35,250	101,551	07,240	32.5	2.00
LENTUCKY	-50,212	.;	35,250 20,212	100.0	••••
LOY O I ANA	12,317	š	12,317	100.0 100.0	1.00 1.00
NE NE	30,005	•	30,005	100.0	1,11
iaryland Iabbachubetto	47,147	3,501	43,046	92.0	0.00
IICHISAN	112,402 19,195	•	112,462	-100.0	1,11
IMEGOTA	10,000		19,195	100.0	0.00
1881881991	\$5,001	49,779	93919	100.0 10.0	0.00 10.27
18804A 1 CHTANA	151,010	6,574	145:236	95.7	0.05
KSRASKA	107,943	107,943	• •	. • .	•
CYADA	•	107,743		•••	•
EN NAMBHEUE	14,541	•	14,541	100.0	-0.00
EN JEROEY EN NEXICO	30,019	•	30.010	100,0	0.00
Es vosk	4,350 0,975,668		4,350	100.0	0.00
ORTH CAROLINA	20,456	0,023,609 10,407	351,059 10,463	3.9	24.51
IDRTH BAKOTĀ.	2,003		2,003	49. 9 100. 0	1.00 - 0.00
NIO	. 7,555	449	4,904	91.4	0.00
KL ANGMA REGOM	75,000	70,000	5,000	,,,,,	14.00
PINA VL VANTA	361,041 204,384	340,932	12,149	3.4	20,72
enngylyahia NGOE Island	4,070	127,523	76,861 4,070	37.6 100.0	1,66 0,00
DUTH CAROLINA	27,449		- · · ·		-
DUTH BAKGTA	6,000		27,449 6,000	100.0	•••
19083mil	•	i	0,000	100,0	•,••
INAO FAM	66,312 4,991 ·	•	66,312 4,901	100.0	0,00
LANGN7	4,114	• •	41441	100,0	••••
IRGINIA	14,444	•	40.400	•	.•
ABN X NO TON	224,301-	\$4,243	14,444 170',000	100.0 75.0	0.00
et virginia	1			100.0	1,50
19CONSIN	172,966 40,000	96,200 20,000	,74,766 20,000	43,2	1.31
TOTAL U.O.	\$11,794,551	. 09,956,411	01,030,149	50,0	1,60
MERICAN BANDA		,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**********	15,0-	5,42
VAN	i	Ĭ		•	• •
VERTO RICO RUST TERRITORY	•	•		•	•
INGIN ISLANDO	;	;	•	:	-•
OUTLYING AREAS	••	••	80	•	•
& OUTLYING AREAS	811,794,551	00.056.411	01,030,140	15.0	5,42



# TABLE 1-31 -- DUTLAYS FOR CONTRACTES SERVICES UNDER CVEA) SECTION 12A, SV SQUECE OF FUNDS AND SY STATE OR GUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDVER)

• • •	**********	OUTLAYS	•••••••	FEDERAL AS	RATIO OF
STATE OR OUTLYING AREA	YOTAL	HOHO FEDERAL	FEDERAL	PERCENT OF TUTAL	non-Fedena To Federal
alabama Alaba Arii Sona Arii Anda Balifornii a	200,948 12,958	230,100 11,703	44,770 1,195	19.3	\$.21 <b>\$.</b> 04
DELORADO DENMECTICUT DELAMANE DELORADE PLOREDA	To,121	Te, 121		•.•	•
Moiawa Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo Igamo			• -	, • •	,
iona Langab Lentucky Guislana Habre			,	•	•
MARYLANO MABACHUOETTO JEMISAN JEOJIOOTA JEOJIOOJPPI	₹,178,780 0	2,172,700	`,	• •	•
zbegun z Bintana Benabra Evaba Eu nampānzre					
en Jéroev En Nexico En York Orth Carolina Orth Darota		•			
MIO MLANGMA GEGON MODE ISLAMO MODE ISLAMO	334,22\$ 1,440	334,225	1,000	140.0	•••
OUTH CAROLINA OUTH DAKOTA EMMERRE ENAD	•	• 9 0 0-			
Equont Inginia Abrington Est virginia Escansin Voring	44,428 143,2*3	6,370 135,344	50,050 7,040	90.1	0.11 17.03
TOTAL U.S.	03,009,753	52,976,772	5112,001	3,7	24.35
Merican Banda Man Merto Rico Must Tenritory Irsin Islands	190,734	<b>90,367</b>	0 . 0 . 0 . 0 .	50,0	1.00
OUTLYSHE AREAS	8196,734	898,367	398,367	50.0	1.00
U.S. & OUTLYÍNG AREAS	83,200,407	\$3,075,139	82:1,340	0.4	14.55

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VUCATIONAL EDUCATION DATA SYSTEM.



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## TABLE 7.32 -- DUTLAYS FOR STATE ASMINISTRATION UNDER (VEA) SECTION 120, SY SOURCE OF TUNOS. AND SY STATE OR UNTLYING AREAS SCHOOL-VELR-1978-79 (ENCLUSES CARRYOVER)

		**************************************				
STATE OR DUTLYING AREA	707AL	NON		FEDERAL AD PERCENT OF TOTAL	RATIU OF NON-FEDERAL	
70000000000000000000000000000000000000	****************		***********	707 <i>1</i> 0.	70 FEOERA	
LABAMA	1,702,710	451,455	451.400	· *		
AONA	320,377	196,641	· <b>951,455</b> 131,736	50.0	1.00	
11 30ma	993,488	550,049	437,419	40.1	1.49- 1.27	
ntángas M. 1700m I a	947,699 4, <b>62</b> 1,694	520,200	421,493	44,5	1.25	
ILBANO		1,409,077	2,932,017	63,4	₹3.56	
Haveet 1647	1,603,421 2,070,430	620,044	974,577	60,0	0.65	
PLANARE .	402,747	1,092,704 1 <b>50</b> ,706	977,734	47.2	-1-12	
STRICT OF COLUMBIA	\$42,905	104-076	. 244,641 136,629	\$0.6 \$7.2	0.65 0.75	
MRIDA	3,760,226	1,517,302	2,251,900	50.7	6.67	
DONGIA	1,941,686	049,132	1,002,400-	\$4,3		
MAII	\$42,279	412,044	150,235	20,7	9.78 2.74	
MANO ALTHOIO	667,100	667,109		77,0		
Ø1AMA	1,983,001 :===================================	692,643 441,040	<b>9</b> 1,156	56.3	0.70	
WA .			502,371	53.3-	•.••	
	1,099,846 483,710	510,053	\$69,793	53.0	0.00	
MTUEKY	1,562,676	193,407 1,450,194	-290,231 112,402	••••		
wioiama amaioiy	044,929	407,419	437,510	7.2 51.0	12.09	
ing	046,676	, 464,924	361,746	45,1	1.22	
rylang	1,015,324	507,402	507,002	50.0	• *	
88ACHU0E778	1.671.816	450,024	971,000	50.1	1.90 0.72	
CHIBAN NHC807A	1,332,001	500,123	752:050	56.5	<b>•</b> ;••	
961961PPI	2,314,566 1,305,203	1,574,410 1,073,049	740,146	32.0	2.13	
-		110131044	312,234	22.5	3,44	
860vr 1 N7ANA	<b>934,70</b> 1	302,450	552,243	59.1	0.69	
DA BRA	430,451			•_		
VA04 .	253,002	220,727 127,244	202,124	46.9	1.13	
N NAMPSHIRE	643,454	199,613	443,839	- 60.0	1.00- v.45	
u jengev *	2,401,407	1,021,022	1,300,475			
n wexteo	\$26,597	230,205.	200,302	57.5 54.8	0.74 0.03	
M YORK M7N CAROLINA	3,794,406	2,900,000	1,794,406	47.3	1.11	
MTH DAMOTA	2,324,115 579,239	2,212,507 350,340	111,570	4.0	19,84	
* · · · · · · · · · · · · · · · · · · ·	3.4,234	204 / 2-4	220,000	39.5	1,53	
10 LANONA	1,461,331	674,347	700,904	53.4	0.00	
EGON .	2,365,340 1,141,165	1,954,362	001,036	34.0	1.94	
nne yl van ia	3,903,031	414,391 1,341,181	726,774- 2,221,050	63.7	0.57	
BOE TOLANO.	530,965	197,426	341,530	42.4 63.4	0.60 0.50	
JTH CAROLINA	2,204,222	- • -	·			
MTM ČAKOTĀ	242,506	1,624,717	579,505 109,557	26.3	3.00	
MEDOCE	6,595,777	6,315,777	200,000	-45,2 4,2	1.21	
KAO Am	3,270,992	1,672,454	1,600,500	49.0	1.04	
12	675,540	443,405	232,535	34,4	1,01	
Riight	234,700	.175,917	\$4,443	24.6	3,00	
ROINIA RUINEROU	1,336,995	1,107,500	169,409	12,7	6,00	
9M2M67DM 87 vir61mia	1,742,000	792,777	949,231	54,5	0,84	
DCONSIN	2,072,034	1,202,226	500,550 1,707,812	40.0 50.5	1.05-	
DW 1 MG	323,554	153,766	109,700	\$2.5.	:::	
107AL U.S.	07/0.720,705	043,096,200	033,030,505	43.4	1,20	
ERICAN BANDA	• • • • • • • • • • • • • • • • • • • •	40,230	51,049	56.3	0.70	
M	0,351	•	0,351	100,0	0.60	
lato rico'. Not regaltory	921,421	342,656	510,765	63.2	<b>0,50</b> .	
MESH SOLANDO	•			:	•	
OUTLYING AREAD &;	<b>4621,451</b>	130 <b>2,00</b> 0-	. 8570,965	62.0	9 <b>.5</b> 9 ,	
•	•			·		
D. O. OUTLYING AREAS	077,640,556	843,439,000	\$34,209,470	44.1	1.27	

SOURCES U.S. REPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VUCATIONAL EDUCATION DATA SYSTEM.



#### TABLE 7.33 -- OUTLAYS FUR LOCAL ASMINISTRATION UNDER (YEA) SECTION 120, SV SOURCE OF FUNDS, AND SV STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYOYER)

	*********	FEDERAL AS			
, STATE OR OUTLYING AREA	TOTAL	NOR— FEDERAL	FEDENAL	PERCENT OF TUTAL	RATIO OF HUM-FEDERA TU FEDERAL
ABAMA	2,130,740	2,000,240	70,702	3,3	59.55
ASKA	AXA . 347	•		•	•
i 20ma Kangas	856,357 2,426,724	856,357 2,403,220	23,500	0.0 1.0	102,27
LSPORMIA	30,107,910	24,870,700	1,207,002	3,0	26.70
LORADO	3,507,420	3,509,516	57,91è	1.0	š1.01
INECTICUT LABARE			•	:	:
BTRICT OF COLUMBIA BRIDA	271,340 33,470,524	135,674 33,290,957	135,674	50.0	1,00
			179,567	0,5	105,40
DAGIA Naii	1,793,962	1,054,034	139,340	7.0	11.07
and Livois	1,931,367	1,931,357	•	0,0	•
DIAMA,	2,416,297	2,473,934	342,361;	14:2	40,00
MA.	· •	. •	• ,	•	•
NGAS HTUCKY	1,492,772	1,692,772	- 65	•.•	;
YESIANA	2,934;999	2,734,999		•••	:
IME .		•	Ō	·	•
RYLAHO	4,250,529	3,991,020	259,503	0.1	15,36
BBACHUBE778 CHIBAM	5,103,090 15,124,002	5,103,070 14,576,020	`540,654	9,0 3,6	20.57
ing 00 fa. 06 1881 PP 1	•	•	•	•	
	2,067,367	2,066,427	760	•.•	2152.53
JOOURI ITANA	2,6,37,672	2,037,072	•	•••	•
PRASKA	803,405	700,001	102,624	11.4	7.01
YADA` W MAMPONIRE	, 700,727	779,503	7,224	•••	107.99
y Jensey	•	•	•		-
MEXICO	į	· •	Ĭ	•	:
N YÜRK RTH CAROLÌNA	;	•			:
RTH BAKOTĀ	747,436	747,430	•	4,4	•
10	12,747,993	11,102,411	1,565,502	12.3	7,14
LAHOMA ZBOM	2,000,092	1,900,007	97,605	4,7	20,36
MMBAFAVASV	5,320,054	5,320,054	40. 20.	:0.0	.•
DE ISLAND	241,500	120,794	120,794	50,0	1,00
UTM CAROLINA UTM DAKOTA	<u>20,120,050</u> 704,040	20,042,053 591,379	-04,205 173,409	4.3	307.20
MESSEE	3,350,720	3,343,544	7,176	32.7 9.2	3,41 405,73
KA <b>B</b>	29,753,273	29,425,340	327,005	1.1	47,74
RNON7	400,040	****	•	0,0	
REINIA	4,383,520	4,383,520	,	•;•	•
BMINGTON D7 VIRGINIA	7,002,001 3,730,593	7,403,649 3,737,638	399,052 1,555	5, 1 0, 0	10,55 2403.24
CONSIN	19,041,427	19,673,159	100,200		110.72
DNINE	•	•	•	•	•
707AL U	0236,176,549	0232,005,929	06,110,020	2,0	37.90
ERICAN BANDA	•	•	• .	•	•
am Erto rico	•	•	•	•	•
UBT TERRITURY	•	•	•	•	•
REIN ISLANDO	•	▼-	•	•	•
DUTLYING AREAS	●9	, 50	80	•	•
S. S CUTLYING AREAS	0236,170,547	0252,005,929	* \$0,110,020	2,6	37,90
de a chipitua werea	463417441344	AC 95 1 AA 31 AC A	: :	4.4	****



### TABLE 7.34 - OUTLAYS FOR VOCATIONAL EDUCATION (VEA) RECTION 130 PROGRAMS, BY AUTHORIZATION YEAR: AND SOURCE OF FUNDS, AND BY PROGRAMS SCHOOL YEAR: 1978-79

	F1	SCAL YEAR 1979		· · · · · · · · · · · · · · · · · · ·	ISCAL YEAR 1978	
PROGRAM	TOTAL	NON- Federal	FEDERÁL	TOTAL	NON- FEDERÁL	FEDERAL
TOTAL=-RCÚ GUIDACE AND COUNSELING PRESERVICE AND INSERVICE TRAINING SEX-BIAS GRANTS STATE ADMINISTRATION LOCAL ADMINISTRATION /EVALUATION	26,696,365 178,459,382 32,549,866 1,454,808 16,374,518 22,185,225 33,899	13,421,611 152,807,727 18,989,710 160,156 7,639,219 21,299,254	13,274,754 25,651,655 13,560,156 1,294,652 8,735,299 685,971 33,894	13,907,349 37,866,135 13,208,359 719,937 1,780,753 1,694,605	2,392,941 22,369,524 4,207,773 117,965 503,052 327,651	11,514,90 15,496,61 9,000,58 601,77 1,277,70 1,366,75
SECTION TOTAL	\$277,754,058	\$214,317,677	\$63,436,381	869,177,638	829,919,106	839,258,53

NOTE: NO SUBSECTION TABLE FOR THE FOLLOWING: 1/ EVALUATION-- HEST VIRGINIA ONLY.

#### TABLE 7.35 -- OUTLAYS FOR TOTAL-ROU UNDER (VEA) BECTION 130," BY BOURCE OF FUNDS AND BY STATE OR OUTLYING AREAS SCHOOL VEAR 1970-79 (INCLUDES CARRYCVER)

************************		DUTLAYS	**********	`	
in the second of	***********	NON-		FEDERAL AS PERCENT OF	RATIU OF
STATE OR SULFAINE, WHEN	701AL	BENERAL	PEDERAL	90941	NON-FEDERAL TO FEUERAL
√alagina" .	442,147	20,003		- ,	•
ALASKA	184,871	2-,073	422,054 154,571	95.5 100.0	0.05 0.08
ART SOMA	370,684	, 1611434	-240,734	67.1	0.49
CALIPORNIA	221,023 4,360,757	26,807 1,652,266	. 194,936	`, <b>87.</b> 9,	9.14
COLONANO	**************************************	, ,	2,6,40,491	<b>61.6</b>	0.42
	209,945 120,762	35,061	264,004	80,0	0.14
GOLANARE GOLANARE	250,549	199,132	-120,762 -51,437	100.0	0.00 -3.07
PLOTIET OF COLUMBIA	~ +3,323	5,124	50,199	•1.•	0.09
122	2,659,067	1,904,725	754,342	28.4	¿ 2.53
GEORGIA GEORGIA	707,272	157,437	549,035 ,	77.7	0.29
s and the same of	. 72,420 224;327	. 24, 072 122, 672	40,356 101,655	46.0 45.3	0.50 1.21
SLLINOIO :: INGIANA	1,854,101	031,739	1,022,442	95.1	0.51
44 T	1,200,972	312,057	* 960,915	75.4	· 0•3\$
30ma Kambad	931,301	475,230	456,063	49.0	1,04
MENTYCKY	.404,504 886,359	142,736 44,574	261,760 041,705	64.7° 95.0	0.55 0.05
- LOUIOIANA-	232,043	•	252,043	100.0	0.00
MAZNE	100,316	•	100,316	, 100,0	0.00
MARYLAND / MASSACHUSETTS	1,066,105	61,310	1,024,075	-94,2"	0.46
MECHIGAN	463,303 - 109,613	121,600	341,703 109,413	73.7	0.36
- MENNEGOTA	430,695	125,000-	305,095	100.0 71.0	. 0.41
MEGGIGGIPPI	\$89,754	447,599	142/155	24.1	3.15
: MERCOURI - MENTAMA	950,072	695,506	254,566	26.0	2.73
MEGRACIA	170,402	70,332	100/150	٠٠.٠	0.65
- NEVADA`. - NEW MAMPAHIRE	113,293	•	113,293	100.0	0.00
जिल्हा स्था का नामान के	36,697	20,000	10,097	48.6	1.06
MEM JERSEY MEM MEXICO	1,660,970	051,966	* 009, 004	40,7	1.05
	174,060 3,144,60 <b>5</b>	-21,256	153,604 3,144,685	<b>87.0</b> 10 <b>0.</b> 0	0.14
MORTH GAROLINA MORTH BAKOTA	470,973	37,100	441,793	12.2	0.00 <b>0.00</b>
THE THE CANUTA	85,213	5, 452	79,761	93.6	0.07
ext thout	4,773,505	3,012,721-	1,760,064	36.9	1.71
OREGON	1,530,001 201,206	1,116;;[99 65,773	414,602 215,513	27.1	2.69
PEMISYLVANIA	-507,420	336,009	169,411	76.6 33.4	0.31 2.00
MIGOE ISLAND	42,005.	0	42,005	100.0	0.00
SOUTH CAROLINA	409,053	•	409,053	100.0	0.00
* <b>SOUTH D</b> AKOTA * <b>TENNESSE</b> E	94,740 274,956	•	94,740 659,675	100.0	0.06
TEXAS:	2,072,053	4,020	2,000,025	100.0 <b>49.0</b>	0.00
· UTAH	209,709	173,140	110,041	40.3	1,40
PHONT	17,081	•	49,009	100.0	0.00
VIRGINIA :MASHING70H	465,336 422,697	20,080 140,309	436,456	93.0	0.07
MEST VIRGINIA	627,496	319,160	202,340 300,320	66.0 47.1	0.50 1.04
MISCONS IN	-2,657,549 226,616	1,960,365	609, 104.	25.9	2.06
****** ** **	,	113,300	113,300	50.0	1.00
TOTAL U.O.	040,324,096.	015,014,552	024,509,544	40.0	0.65
AMERICAN BANGA OUAN	13,427 17,403	0	13,427 1,403	100.0 100.0	0.00
PUERTO RICO.	265,200	Ĭ	265,208	100.0	0.00 0.00
TRUET TERRITORY	•	. 0	•	:	•
OUTLYING AREAD	0200,110	••	020a,114	160.0	v.čo
			•		
U.S. & OUTLYING AREAS	049,604,214	\$15,014,552	024,709,662	61.1	0.64



# TABLE 7.36 -- OUTLAYS FOR RESEARCH-ROU-UNDER (VEA) SECTION 138, 8Y SOUNCE OF FUNDS, AND SY STATE OR OUTLYING AREAS. SCHOOL YEAR 1978-78 (INCLUSES CARRYUVER)

		OUTLAYO		******	
97A7E OR OUTLYING AREA	TOTAL.	non- Federal	FEDERAL	FEDERAL'-AO PERCENT OF, `TUTAL	RATIO OF- NON-FEDERA TO FEDERAL
LAGAMA	11,662		-		ļ.
LABKAS	11,012	, ,	11,602	100.0	0,00.
rizona Rkansas	120,970	34 44	· ·	. •	•
ALIPORNIA .	1,072,390	26,460 720,877	142,51 <u>1</u> 343,517	79,5 32,0	0,26 2,12
DLORADO DINECTICUT	146,763 36,694	102	146,601	99.9	0,0ò.
ELANARE IOTRICT DE COLUMOIA	12,037	0,000	36,694 4,037	100.0 .37.7	10,00 -1,65
FOULDY	453, 445	52,222	401,643	••;5	0,13.
CORGIA AMAII:	•	•		•	
BAHO	52,901 4,617	. 24,072	28,909 4,617	54.6	5.03
MINDIS.	3/4/300	Ý1,322	153,000	100,0	9.00
DelA _	544, 334	333,007		62,6	0,60
MOÃO - ENTUCKY	70,334	20,125	210,531 50,209	36,7 74,3	1.59 0.35
DUTOTANA	200,514 :44,455	44,574	243,940 '44,455	- 04 . 6 100 . 0	0,10
NIME	•	ŏ		•	•••
ARYLANO	0 52,437	•	52,437	400 ⁶ 0	
CHISAN ( INNESO7A			32/43/	100.0	•.••
NOTO IPPI				•	•
IBÉGURT MTANA	. •	•	`•		•
BRASKA	.09,511	27,775	÷1,736	49.0	•
YASA N HAMPSHIRE	37,973	,	37,973	100.0	0.45 0.00
H JERSEY	514,470	200,764-	233,Š14	45.4	•
H.YORK	46,406	0	66,406	100,0	1.20 0.00
MTH CAROLINA	1,534,624 351,244	37,100	1,534,024 314,064	100,0 -07,4	0.00 0.12
MTH DAKOTĀ	, • <b>,</b>	•			•
IZO LAHOMA	462,752 70,975	56,219 21,865	404,533 57,090	97.9	9.14
esom NMSYLYANIA	104,735	19,523	05,412	. 72.3 • <b>0</b> 1.4	0,38 0,23
COE-18LAND.	335, 567	10,417	325,152	96.9	70.03
UTH CAROLINA	477049	•	47,049	100.0	5.00
WTH DAKOTA MMEGBEE	30,292 47,4 <b>0</b> 5	10,052	40;240 47,4 <b>0</b> 5	100.0	0.25 0.00
MAO An	377,124 03,793	·	377,124	100.0	0.00
RHOÙ?	31,342	•	03,703 *** *** *	1,00,0	0,00
RECHIA	.204,864	28,080	31,342 255,904	100.0 07.7.	0,00 0,11
SMINGTON OT VIRSINIA	202, 136	207.070	75,066	. • .	ì
SCONSIN ONING	1,197,902	741,641	256,061	26.0 21.4	2.73 3.60
707ÀL U.O.	16,000	4, 44	•,•••	50,0	1.00
ERICAN BANGA	07,167,952	02,979,375	\$6,188,577	67.5	1,41
AM ,	4,464	•	4,464	100,0 100,0	0,00 0,00
E470-RICO VB7 "TERRITORY	100,075	Ö. 8	100,005	100.0	. 0.00
REIN ISLANDS	ŏ	·	•	:	•
OUTLYTHS AREAS	\$105,402	80	0105,402.	100,0	•.••
S) & GUTLYING AREAD,	89,353,354	\$2,979,375			-,**



### TABLE 7,37 -- DUTLAYS FOR EXEMPLARY PRUBRAMS-ROU UNDER (VEA) SECTION 138, BY SOURCE OF PUNDS; AND BY STATE OR OUTLYING AREAS SCHOOL YEAR; 1978-79 (IMCLUDES CARRYDVER)

- *	QUTLAY6			FEDERAL AS	RATIU DF
STATE OR DUTLYING AREA	TOTAL	NON- FEDERAL	FEDERAL	FERCENT OF TOTAL	NUM-FEDERAL TU FEDERAL
LABANA	•	0	. •	•	•
LASKA RIZONA	•	0	đ	•	• ,
akansas Alipornia	196,939	•	80,939 196,287	100.0	0.00 8.80
OLORADO OHNECTICUT	68,182 71,198	35,759	32,423 71,190	47.6 100.0	1.10
ELANARE ^	10,000	.7,000	3,400	34.0	1.94
istrict of columbia Loriba	:\$0,224	3,918	*46,306	92,2	0.00
eorsia Awaii	19,447	0	-19,447	100.0	0:00
DANO	48,484	16,033	02,653	<b>63.6</b>	0.19
ll india Moi ana	521,733	161,246	340,535	6,9.1	v.45
OHA	138,510 238,950	61,101 113,171	77,409 125,779	55.9 52.6	0.79 0.90
ansas Entucky	261,331 .	113/1/1	261,331	100.0	0.00
AMAIBIUO. Smr	36,983		38,903	100.6	0.00
ARYLAND .	314,972	121,660	0 295,292	•1.•	-0.62
ASSACHUSETTS IZCHISAN	310,4/2	121,000	142,545	-1	•
iimmesota Iiosissippi	•	•	0	•	:
ISSOURI	Ó	•	0	•	= <b>0</b>
CORANA. Coranka	30,290	26,583	3,707	15.5	7.17
ĒVADĀ EM: MAMPSHIRE	75,320 0	0	75,320	100.0	0.00
Eú-JERSEY	951,731	539,345	412,346 83,021	43.3 100.0	1.31
IEW MEXICO. IEW YORK	<b>63,021</b> . 34,150	0	34,150	100.0	0.00-
IORTH CAROLINA IORTH OAKOTA	0	0		•	•
MID	4,306,949	2,955,884	1,051,065 48,477	26.2 98.6	2.61 0.01
MEGON .	50,205	. 3,230	55,055	94.5	0.06
ennsylvanja Hooe. Island	399,700	131,070	267,830	67.0	0.49
OUTH CAROLINA	109,000	0 27,250	. 81,750	75.0	0.33
OUTH DAKOTA Ennessee	245,137	0	245,137	100.0	0.00
EXA8 Tah	425,079 1 <b>85,</b> 392	1,263	423,816 .23,685	99.7 12:8	0.00 6.83
ÉRHONT	42,027	آ	42,027	100.0 100.0	0.00
irbinia Irbiningon	31,021		31,021	46.7	0.00
MEST VIRGINIA VISCONSIN	91,202 130,540	46,575 83,056	44,627 47,484	40.7 36.4	1.04 1.75
IAOMINS	210,616	105,300	105,308	50.0	1.00
TOTAL U.S.	89,270,544	\$4,602,704	\$4,667,840	50.4	0,99
MERICAN BANGA	5,597	0	5,597 0	100.0	0.00
HUAN PUERTO RICO	ò	Ö	Ō	• •	•
irust territory Virsim islands	0	0	0	:	:
OUTLYING AREAS	\$5,597	80	\$5,597	100.0	0.00
U.B. 8 OUTLYING AREAS	89,276,141	\$4,602,704	84,673,437	50.4	U, 98



# TABLE 7.36 -- OUTLAYS FOR CURRICULUM DEVELOPMENT-RCU UNDER (VEA) SECTION 130, SV SOURCE OF PUNDS: AND SV STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYGYER)

	***************************************	0U7LAY8	•		
STATE OR OUTLYING AREA	t fotal	NUN- FEDERAL	FEDERAL	FEDERAL AS PERCENT OF TOTAL	RATIU OF NON-FEDERA TO FEDERAL
ABANA	12,500	•	-12,500	109.0	0,00
A84A* 120na	•	•	• •	•	•
Kansas Lipornia	11,905	419 719,703	11,406 372,656	96.5 34.1	· 0.04
LOÑADO	85,000		<b>6</b> 5,000	•	
MMECTICUT Labare	30,000 227,132	104,132	30,000	100.0 100.0	0.00
STAICT OF COLUMBIA DRIBA		•	43,000	10.9	4,28
ORGIA	2,154,978 ,	1,048,585	304,393	14.2	6.63
WAII		. 1	•	• -	•
AMO LIMOIS	121,024	100,639	14,345	11.•	7.41.
PRANA	\$14,80Ĭ·	59,407	. 455,314	• ••:4	0.13
ŇÅ H&A3 ·	248,453	00,330	160,123	67.7	0.40
NTUCKY-	125,963 336,514	28,705	97,176 336,514	77.1 100.0	0.30
VISIANA INC	7,500	0 10.	7,500	100.0	0.00
RYLAHO BBACHUSETTS	93,974	0	0	100.0	•
ENISAN UNESOTA	431414	•	.93,974 0	100.0	0,00
BO I SO I POLI	•	•	0		
BOÓURI NTANA	.0	• ,	•	•	, •
DAJKA	58,600	.15, 973	42,707	72.8	0,37
yada I mampahire	- 0 -	-0	0	, <b>.</b>	•
JERDEY	194,761	31,617	163,144	<b>63.6</b>	-0.19
I MEKICO	25,433 1,576,431	21,256	4,177	16.4	5.09.
RTH CAROLINA RTH BAKOTA	127,729		127,729	,103.0 100.0	0.00 0.00
iÕ.	300,936	.616	300.310	•	•
AHONA B <b>OO</b> N	1,402,746	1,093,631	309,115	99. <b>6</b>	0.U0 3.54
M87LYAHIA	:162,871- 301,452	43,020 1 <b>95</b> ,722	119,051 105,730	· 73.6	0.36 1.05
DOE! IOLAND	· •	0	0	. •	•
ITH CAROLIMA ITH PAKOTA	10,000	0 \	10,000	100.0	0.00
MESSEE  AS	367, 053 1,270,650	0	367,053	100.0	0.00
in .	P04.05.	3,565 11,441	1,267,005 9,163-	99.7 44.5	0.00 1.25
MONT	26,500	•	26,500	100.0	V.00
MINETON MINETON	149,451	•	149/451	100.0	0.00
it yirbihia Komeih	293,350 1,354,936	45,523 949,299	107,035 385,039	74.1	0.35
ni thig.	, •···		303/034	24.5	2,51
TOTAL U.S.	812,673/256	85,479,025	\$7,193,431	56.8	0.76
ricah (banga M	3,366 1,360	0	3,366 1,360	100.0	0.00
RTO RICU: ST TERRITORY	, 04,393	· <b>Ĭ</b>	04,393	10 <b>0.</b> 0 100.0	0.00 0.00
SIN ISLANOS	0	•	0		•
OUTLYING AREAS	809,119	**	389,119	100.0	Ø.00
. S. DUTLYING AREAS	612,762,375	85,479,8 <u>2</u> 5 *	******************************	57.1	0.75

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



### TABLE 7.39 -- OUTLAYS FOR GUIDANCE AND COUNSELING UNDER (VEA) SECTION 130, BY SOURCE OF FUNDS. AND BY STATE OR OUTLYING AREA: SCHOOL YEAR 1978-79 (INCLUDES CARRYOVER)

		FEDĚRAL AS	RATIU DE			
STATE OR DUTLYING AREA	NUN-			PERCENT OF TOTAL	NUN-FEDERA TU-FEDERA	
endigation describes and section of the section of				ennagedåesenedesened	ARZUZY D: ********	
LABAMA	3,702,615	2,277,284	1,425,331	30,5	1.40	
LASKA,	27,500	0	27,500	,100,0	1,10	
RI 20MA	724,994	·135,969	509,005	01.2	0.23	
RKANSAS	2,979,091	2,486,055	493,036	1000	5.03	
VFILDUNIV	39,349,630	34,832,347	4,517,283	11,5	7.71	
OLORADO ·	840,275	· 558 , 853°	2817422	33.5	1.77	
DANECTICUT	1,722,625	1,346,171	376,459	21.9	3,50.	
ELANARE	906/432	026,000	160,432	16.3	5.15	
istrict of Columbia Orida	164,698 7,770;620	7,113,427	164,608 657,193	100.0	10.02	
	7,7,0,020	111,31461	4311143	•.,	10.04	
EORSIA	2,019,532	1,031,376.	980,156	40.9.	1.04	
ITAMI	009,492	564,292	245,200	30.3	2.30	
AHO *	497,916	270,624	287,292	45.6	1-19	
"LINDIS. IDIANA"	035,535 640,729	156,375 172,606	678,660 476;123	81;2 73,4	0.23	
******	0441/84	1,5,000	4101153	/3.4	0.36	
JMA ·	340,500	14,605	325,975	<b>95.7</b>	V. 04	
INSAS:	1,107,037	649,216	330,621	28.5	2.51	
ENTUCKY	815,383	-351,013	464,370	57.0	0-76	
Duisiana: Aine	9,202,230 402,442-	7,884,1 <b>98</b> 225,000	1,318,032 139,208	14.3° 30,2	5,90. 1.62	
,	-304) EV4	253,400	1341500	20.5	114	
ARYLAND	3,393,646	2,679,911	713,735	21,6	3.75	
ASSACHUSETTS "	7,142,200	0,086,910	1,055,290	14.05	5.77	
ICHIGAN INNESOTA	29,958,354	26,087,467	3,073,887	12.9	6.74	
	4,083;253 4,500,570	4,000,000 3,400,619	683,283 1,099,751	-10,1 24,4	4.53 3.09	
	4,300,370,	3,000,014	7170447731		3.07	
I SBOUR I	17,439,732	15,578,330	1,651,402	10.7	8.37	
DNTAHA	. 0		0	•		
I BRASHA	554,794	240,557	244,237	45.4	1.07	
EVADA . Ew hampshire	5 <b>9,8</b> 51- 170,540	29,870 109,678		50.1 35.7	1.00	
7.2	,,,,,	10.70,0	00,00E	3541	****	
EH JERBEY	1,696,399	1,052,290	644,109	30.0	1,63	
M HEXICO	49,716	0-	49,716	100.0	0.00	
EW"YORK Drim Cardlina	2,209,357 9,737,234		2,209,357	100.0	0.00	
ORTH DANGTA	335,604.	7,158,154 265,281	2,579,080 '70,323'	26.5 21.0	2.70 3.77	
•	335,004.	2037201	***************************************	••••	``	
HIO	7,590,572	6,117,192	1,481,380	.19.5	4.13	
CLAHOMA	1,414,663	999,065	415 398	29.4	2.40	
recon Ennbaryania	372,371 9,570,530	105,262 7,669,550	267, 159 1,900,980	71.7 19.9	0.39. 4.03	
IODE. IOLAND	-1,125,950	7,007,550 A59,965	265,994	23,6	3,23	
-		,,,,,,				
DUTH CAROLINA	4,726,999	3,867,074	• • • • • • • • • • • • • • • • • • • •	10.2	4,50	
DUTH DAKOTA	237,914	116,540	121,374	51.0-	0.96	
NNESSEE XAS	1,553,754 11,580,4 <b>9</b> 2	525,162 10,156,492	1,028,592	66.2 12.3	0.51 7.13	
AH	824,942	728,569	100,413	12.1	7.26	
		10000			-	
ERMONT	245,736	188,007	57,069	23,2	3, 31	
IRGINIA	582,490	115,432	467,058	80.2	0-25	
MOTONIA Pentry indication	5,991,849 755,555	5,082,453 531,493	9n8,936 224,112	15.2. 29.7	5.59 2.37	
SCONOIN	7,967,731	7,226,780	740,951	9,3	9.75	
OHING	39,600	19,810	19,500	50.0	1.00	
TOTAL :U.S.	8211,665,149	\$172,115,149	\$39,55C,000	10.7	4.35	
MÉRICAN SAMUA	7,251		9.394	160.0	0.00	
JAM	7,67	0	7,278			
VERTU RICO	4,653,090	3,062,102	1,590,988	34:2	1:92	
LUST TENRITORY	Ú	0	o	•	•	
(RGIN-IBLANDS	. 0	. 0	0	•	•	
OUTLYING AREAS	84,660,368	\$3,062,102	\$1,598,266	34.3	1.92	
		_				
.S. & OUTLYING AREAS	8216,325,517	8175,177,251	541,148,266	19.0	4.26	

SOURCE: U.S.-DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL-EDUCATION DATA SYSTEM.



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# TABLE 7.48 -- DUTLAYS FOR PRESERVICE AND INSERVICE TRAINING UNDER (VEA) SECTION 136, BY SQURCE OF FUNDS. AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYOVER)

7UTAL 127,492 0 520,926 927,886 5,134,433 1,486,118 201,376	DON- PEDERAL DO DO DO 314,256 725,997 2,103,126	FEDERAL 127,492 0 0 200,070	FEDERAL AS PERCENT UF TOTAL	, · · ·
127,492 0 520,026 627,666 5,134,433 1,466,118 261,376	314,256 725,997 2,193,126	127,492 0 .200,670	100.0	, · · ·
520,926 627,886 5,134,433 1,486,118 261,376	314,256 725,997 2,193,126	206,670		
520,926 927,886 5,134,433 1,486,118 261,376	314,256 725,997 2,193,126	. 2067676	_	0.00
827,886 5,134,433 1,496,118 201,376	725,997 2,103,126		-à-	
1,486,118 261,376	•	101,889	39.7 12.3	1.52 7.13
261,376	917.447	3,631,307	59.0	0.09
•		560,471	34.3	1.41
<u>~</u>	1,933	259,443	- 44.3	U. 01
0	. •	ŏ	•	•
2,100,831	580,228	1,520,603	72.4	0.38
573,466	5,418	568,268	99.1	20.05
	30,373		54.4	0.77
946,708				2.47
1:156,953	584,210	572,743	49,5	0.66 1.02
380,587	4,703	203.444	47.4	
433,072	247,016	184,054		0.02 1.33:
		533,024	65,1	0.54
300,919	176,643			0.43 0.63
800.344		· ·	· ·	v. • 3
				0.02
1,593,247	1,430,563	162,664		2.04 8.79
		560,606	17.7	4,64
	•	30,340	· 4.0	24,30
		334, 935	ź0.4	3.45
875,706	429,841	. •	24.1	\$.50
39,027	0	39,027	100.0	0.00
362/ <b>44</b> 3	214,420	107,095	33.4	1.99
1,954,575	1,435,301	519,274	26.6	.2.76
		217,504	74.1	0.06
	0			0.00
321,575	179,859	141,716	44.1	0.08 -1.27
1,865,234	265.044	1.490.270		_
1,000,400	638,182	371,317	30.4	0.24 1.72
676,471	- 968	675,503	***	.0.00
4,044,001	2,320,476		-	1.31
846.249	711	ř		•
144,329				3.55
407,395	0	407,395	108.0	1.52 0.00
	010.421		100.0	0.00,
	•	0,0,300	41,0	1.40 '
		.54,874	45.9	1.18
978,909				1.13
521,077	154,872	347,005		0.73 0.42
			47.6	1.10
				1.00
	323/147/483	322,461,494	49,2	1.03.
9,754	0	9,754	100.0	0.00
<b>49,49</b> 4	Ģ A	.0	, , , , , , , , , , , , , , , , , , ,	.•
•	ĭ	••••	-	0.00
U		0	•	•
879,248	80	\$79,246	100.0	0.00
845,750.225	* \$23,197.4A3	122.560.742		1.03
	## 348 ## 408,295 946,708 1:156,953 380,587 #33,072 #818,679 678,033 388,919 578,366 277,533 1:573,287 3:160,608 975,037 1:626,027 322,845 1:954,575 231,213 619,245 32,055 321,575 1:865,234 1:009,409 676,471 4:076,801 0 945,207 144,329 407,395 1:153,739 1:610,329 119,514 2:786,184 970,909 521,677 347,022 13,856 845,678,977 9,754 0 69,494	\$73,486  \$8,348  \$8,348  \$33,373  \$46,245  \$333,372  \$46,210  \$36,587  \$4,210  \$36,587  \$4,210  \$35,672  \$47,616  \$11,56,653  \$36,170  \$313,672  \$247,616  \$14,679  \$25,655  \$48,633  \$36,170  \$36,170  \$38,710  \$38,710  \$38,710  \$38,710  \$176,643  \$76,764  \$27,533  \$11,600  \$27,533  \$1,435,563  \$3,160,608  \$2,600,200  \$75,706  \$475,706  \$42,841  \$21,213  \$13,709  \$41,245  \$1,435,301  \$231,213  \$13,709  \$41,024,457  \$1,435,301  \$231,213  \$13,709  \$41,024,457  \$1,435,301  \$231,213  \$13,709  \$41,024,457  \$1,435,301  \$231,213  \$13,709  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$41,009,400  \$4	\$73,686	\$73,886



#### TABLE 7.41 -- OUTLAYS FOR BEX-BIAS GRANTS UNDER (VEA) SECTION 130. 8Y. SOURCE OF FUNDS, AND BY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (ENCLUSES CARRYOVER)

,	•	######################################			
STATÉ OR DUTLYTHO AREA	TOTAL	HON- FEDERAL	FEDERAL	FEDERAL AS FERCENT OF TOTAL,	RATIO OF NUN-FEDERAL TO FEDERAL
*	,		***********	*********	
MARAMA:	. • •	•	•	* •	•
- ART SOMA	1,18	150	1,430	. •ñ.ŝ	50.0
AMANGAS EALIPONIA	320,044	10	320,044	100.0	0.00
COLORADO	•	•	/ <b>A</b>	-	•
CONNECTION T		•		:	•
QUATRICT OF COLUMBIA		4	;		:
PLORIDA	15,443	15,443	0	•.0	•
MANATE		0	:	•	•
TOANO TLLINOIS	43 44		5. 23.	•	
, indiana.	63,643 40,764	8,922 15,764	54, 721 <b>25, 000</b>	06.0 61.3-	0.16
IOMA., KANGAS		•	•	. ••	•
MENTUCKY	13,847	•	13,847	100.0	0.00
'LOVIOIANA. MAINE	6,314 - 114,620		6,314 :14,620	100.0 100.0	0.00
MARYLAND	10,550.	8,129	.96,379		
MASSACHUSETTS	103,529	49,055	34,474	97.0. 33.3	2.00
Michigan Minngscra	21,101 80,000	0	21,101 00,000	. 100.0 100.0	0.00
MIOOI BEIPPI	12,730	į	.12,730	100.0	0.00
MISSOURI MONTANA	76,420	44	76,376	v9.9	0.00
MEGRA SKA.	.11,209	5,637	¥,512	49.7	1.01
MEYADA´. MEN MAYPSHIRE	•	0	3.	•	•
NEW FIRSEY	3517470	105,645	246,033	70.0	0.43
MEN MEXICO MEN YORK	2, 9361		2,906	- 100.0	4.00
MERTH CAROLINA	734,511 0	Ö	734,511 0	. 100.0	0.00
WORTH BAKOTA.	•	0	•	•	•
ONIO : Onlahoma :	10,902	0	10,902	100.0	0.00
QREGON (	Ĭ.	Ĭ	Ŏ	•	:
Penngylyania Phode - Ebland	0	0	0	•	• •
BOUTH CAROLINA	24,312	, •	24,312	100.0	0.00
Bouth - Bakota Tenne Bbee	0 847	0	861	100.0	0.00
TEXAS UTAM	20,140	0	28,160	100.0	0.00
VERHONT	•	4	•	•	•
VIRGINIA	5,024		(5,024	100.0	0.00
MASHINGTON MEST VIRGINIA	39,204 45,311	20,381 1,591	10,903- 43,720-	27.0 96.5	2.60 -0.04
madnine Miscomsin	42,037	25,310	16, 727	39.6	1.51
TOTAL U.S.	02,173,202	\$270,121	81,895,161	97.2	v.15
AMERICAN SANDA	1,400	0	1,400	100.0	0.00
GUAN PUERTO RICO	<b>63</b>	•	<b>63</b>	100.0	0.00
TRUST TERRETORY	0	0	<b>0</b> ?	•	•
ASBEIN 18FWHDO.	0	•	0	•	•
DUTLYING AREAS	\$1,463	30	\$1,463	100.0	0.00
U.S. & OUTLYING AREAS	82,174,745	\$270,121	\$1,896,624	67.2	0.15



# TABLE 7.42 - OUTLAYS FOR STITE ADMINISTRATION UNDER (VEA) SECTION 138, SY SOURCE UP PUNDS, AND SY STATE ON OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUSES CARRYOVER)

•		0016749 OVILAY8 				
STATE OR OUTLYING AREA	TOTAL	'NON- FEDERAL		FEDERAL AS PERCENT OF	RATIO-OF MON-FEVERA	
**************	*************		federal	TOTAL	TO FEBERAL	
ALABANA	472,100	.236,650	236.050	50.0	1.00	
ALAGRA	105,300	49,229	54, 679	53.3	-0.00	
ARI 30MA; ARKAMBAA	301,003		361,003	100,0	1.11	
CALIFORNIA	236,924 1,070,715	131.551	105,373 1,070,715	44.5 100.0	1,25	
COLORADO	354,790	141,919	212,679	60,7	0.67	
CONNECTICUT DELANARE	324, 905	103,507	221,310	40.1	0.47	
SISTRICT OF COLUMBIA	67,237	35,571	31,060	47,1	1.12	
PLONIO4	69,324 942,522	20,413 379,330	40,711 <b>5</b> 63,172	57.6 57.6	0,67	
OCORGIA.	274,166		274,168	100,0	0.00	
HAWAII.	41,390	Ĭ	61,390	100.0	0.00	
IBANO ILLINOIs	46,061	46,061	•	• • •	• .	
INDIANA	716,600 235,655	364,662 110,262	332,590 125,593	46.4 53.3	1.15	
IQWA -	274,961	127,513	147,440		ļ. <b>88</b>	
Kansas	172,430	50,972	103,450	53, 6 60, 0	0.06	
KENTUCKY	130,073	101,074	20,199	21.7	0.67 3.61	
lgui 6 i ana Haine	162,365 67,198	52,407	109,378 67,198	67.4	0.46	
MARYLAND.		-	- · · ·	100,0	0.00	
ASSACHUSET7s	200,000 417, <b>95</b> 4	130,040 174,902	130,040	50.0	1.00	
ICHIOAN	336,710	145,030	242,972 141,488	50.1 50.9	0.72	
INNESOTA	237,000		227.444	100.0	0.76	
1801801PP1	346,381	240,243	70,058.	22,5	3,44	
ISSOURI, ONTANA	236,750	95,614	141,144	59,6	1.44	
EDRASKA	107,295	54,744		47.1	•,	
Evada "	63,473	31,011	50,531 31,662		1.12	
EN MANPONIRE	04,030	16.353	60,405	49.9 60.7	1.00	
ien Jersey	696,375	255,256-	345,119	57.5	0.74	
ien herico Ien york	131,074	_57,551	71,543	54,6	-0.03	
ORTH CAROLINA	440,602 -56,296	.200,000	440,602	47.3	1.11	
IORTH BAROTA	79, 874	30,713	56,296 68,381	100.8	- 0,00 0,64	
M10:	-345, 333	160,507	146,746	53, 7	0.06	
MLAHOMA	500,050	300,541	200,259	34.0	1,94	
regon Ennoylyania	76,413.	_ •	76,413	100.0	0.00	
HODE - ISLAND	090,764	335,308	555,462	42.4	0.60	
*- *- ·	194,709	111,201	03,500	42,9	1,33	
OUTH CAROLINA OUTH BAKOTA	462,257	315,554	146,703	31,7	2.15	
ENNESSEE	66,323 1,776,970	33,161	33,162	59.0	1.00	
EXAO:	723,239	1,579,016 418,121	197,954 365,118-	11.1	7.94	
TAH-	105,673	105,251	00,422	42.2 43.3	1.37 1.31	
ERNONT	35,042	25,256	. 9,706	27.9	2.50	
irginia` Abmington	334,249	241,046.	42,353	12.7	6,07	
EST-VIRSINIA	-461,433 227,462	143,664 132,937	-317,769	40.9	0.45	
ISCONSIN	742,797	300,556	44,525 442,241	41.6 59.5	1.41	
AGHINE	. 65,721	. 23,480	42,441	64.4	0.55	
TOTAL U.S.	810,070,950	* 80,142,271	89,920,607	54.9	6,42	
MERICAN BAHDA	12,963	•	12)463	100.0	.0,00	
VAN- VERTO RICO:	70,270	^ <b>0</b>	70,270	100.0	0.00	
RUST TERRITORY	1,000	ě	1,000	100.0	0.00	
IMOIN ISCANOS	. •	•	•	•	•	
DUTLYING AREAS	804,313	80	884,313	100.0	0.00	
OUTLYING AREAS		44.443 344				
AND A ANIPIOUR MUÉUS	818,155,271	80,142,271	\$10,013,000	55.2	. 0.81	



#### TABLE 7.43 -- DUTLAYS FOR LUCAL ADMINISTRATION UNDER (VEA) SECTION 130, BY SOURCE UP FUNDS, AND BY STATE OR DUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYDVER)

	OUTLAYO			PEDERAL AS	RATIU OF
OTATE OR GUILVENS AREA	TOTAL.	NON- FEDERAL	PEDERAL	PERCENT OF TOTAL	NUN-FEDERA TU FEDERAL
ALABAMA	\$34,237	516,561	17,676	3,3	29,22
ALA <b>S</b> KA	•	•	k -•	•	*****
ari boma Arkansas - *	74, 112 <b>536,</b> 616	74,112 532,743	5,075	0.0 1.1	70.00
EALIPORNIA	294,200	•	294,200	4100.0	0.00
COLORADO	091/057	077,300	14:477	1,6	60.61
OMMECTICUT MELAWANE.				•	, <b>•</b>
DISTRICT OF COLUMBIA CLORIDA	42,360 2,266,527	2,266,527	42/30	100.0	0.00
-	1,500,30	212001321	•	•••	•
Marii Marii				•	:
eamo. Llinoie	,	•	į	• .	•
HOIANA	604,074	510,404	05.500	14.2	`i.oo
SÛA .	•	•	●.		_
iambas ientucky	1	•	į	×	•
OUI OIANA -	· ·	i	` •	•	•
ATHE	•	•	• •	•	* •
MRÝLAHO. MASSACHUSETTO	99,071	59,332	40,539	40,6	1.40
ICHI SA4	3,533,196	2,592,34	940,010	26.6	2.76
Inmerota  Irri 1881   1881   1881   1881   1881   1881   1881   1881   1881   1881   1881   1881   1881   1881   1881	516,005	510,504	241	•;•	2143,42
išačuni.	2.0,002	3.0,304	•	***	6170176
ONTANA TRADOMI,		•	•	* *•	:
EDRADA Evada	į	,	Ď	•	•
EN MAMPSHIRE	•	Ĭ		. :	•
Yanat us	•	•	•.		
EN NEXICO EN YORK		į	į.	•	•
IORTH CAROLINA		i	•	•	•
ORTH SAKOTA	•	•	•	•	•
MLAMONA M10 -	3,107,000	2,795,604	391,396	12.3	7.14
MEBON, .	521,673	497,272	24,401	4.7	20,34
Pennoylvania Hi <b>o</b> ge Islaho	1,305,771	1,305,771	÷ 0	0,0	•
	• • • • • • • • • • • • • • • • • • • •			,	•
OUTH CAROLINA OUTH DAKOTA	21,051 70,259	40,071	21,451 22,108	100.0 31.6	0.00 2.17
THNESSEE Exas	535,020 1,574,624	\$35,020	207,299	9.0	•
TAM	112,41984	1,347,325	•	13.2	6.60
PERMONT	• •	0		•	
IRGINIA	4 274 44	0	20.71	_•	•
ASMINGTON Egt virginia-	1,950,065	1,450,901	99,744	5.1	10.55
ISCOMOINA IYOMING	5/317/074	5,273,044	44,830	, 0,0	117.62
TOTAL U.A.	023,079,030	021,027,105	02,252,725	•	•
MERICAN GANGA	٥	0	0	•	•
WAR	į.	0	,	••	•
VERTO RICO RUGT TERRITORY	0	. ;	.0 9	•	•
INOIM ISLAMOS	Ų	0	0	•	•
OUTLYING AREAS	••	••	80	•	•
O OUTLYING AREAS	023,079,030	021,027,105	02,252,725	9,4	9,60



# TABLE 7.44 -- OUTLAYS FOR VOCATIONAL EDUCATION (VEA) SECTION 140 PROGRAMS, SY AUTHORIZATION YEAR AND SOURCE OF FUNDS, AND SY PROGRAMS SCHOOL YEAR 1978-79

<u> </u>		ICAL YEAR. 1979		FISCAL YEAR 1978		
PROGRÁFI 	TOTAL.	NON- FEDERAL	FEDERAL	TOTAL	NON- FEDERAL	FEDERAL
SPECIAL DISADVANTAGED	20,867,248	10, 112, 401	10,754,767	8,70¢,3¢7	2,115,552	6,784,837
		*************		, ,		

### TABLE 7.45 -- OUTLAYS FUR SPECIAL PROGRAMS FOR DISADVANTAGED EMBOLLEES UNDER (YEA) SECTION 140, SY SOURCE UP FUNDS, AND SY. STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYUYER)

	******	OUTLAYS	********************************			
-STATE OR GUTLYING AREA	TOTAL	NON- FEDERAL	FEDERAL	PEDERAL AS PERCENT OF TOTAL	RATIU UF NUH-FEDERA TU FRUERAL	
	¥	•				
araa Araa	343,492 55,446	7,425	343,092 46,421	100.0 33.7	0.00 0.19	
120MA	- 189,761	39,668	-150,073	79.1	45.0	
MANSAS	155,637	9,276	146,361	94.0	1,11	
FILOUMIV.	3,104,646	096,113	2,200,533	71.7	1,40	
LORADO -	336,614	10,599	326,415	96.9	0.03	
MMECTICUT LANARE	453,419	193,200	360,219	57.4	0.74	
STRICT OF COLUMNIA	116,294 59,536	••,••	36,294 59,536	31.2 100.0	2,20 1.11	
BAIDA	5,154,452	4.613,334	541,118	10.5	0.53	
19841A .	190,464		196,464	100.0	0.00	
MAII	43,461	ě	43,041	100.0	0,00	
440	137,999	7,032	130,167	94.3	0.44	
AINOIS	702,192	302,027	479,365	. 61.3	0.63	
BIAMA	1,467,366	702,752	766,634	. 25'5	0.92	
WA MBAS	343,347	145,663	197,724	57.4 61.9	0.74 0.61	
MTMEKY	109,507 310,677	72,131	317,376 310,677	100.0		
WISIANA	1,720,340	1,523,700	370,000	20.7	3.04	
INE	191,127	•	191,127	100,0	0,00	
RÝLAND	504,026	7,760	497.466	10.5	8.02	
BBACHUGETTB	290,634	•	296,634	100,5	0.50	
CHIGAN	799,638	159,582	640,056		0.25	
nmesota Soissippi	365,880 483,792	220,999	365,000 <u>.</u> 262,793	100.0 54.3	0.00 0.04	
SAGURI	659,655	204,255	393,400	59,6	0,68	
MTANA	•		• •	12,4	•	
BRADKA	130,720	9,939	120,702		0.00	
yada W Hampshire	95,511 60,701	43.7	\$3,101 <b>00,70</b> 1	55.6 100.0	9.00 J.00	
u JERREÝ	1,120,704	627,759	501,145	44.4	1.25	
MEXICO	54,312	, <b>2.,</b> ,,,,	54,312	100.0	1.44	
M YORK.	404,641	Ŏ	000,041	100.0	0,00	
RTH CAROLINA	530,939	_ •	530,939	100,0	0.00	
RTH DAKOTA	<b>62,76</b> 0	2,949	40,011	96.4	8.04,	
ĮÓ	1,305,759	47,010	1,337,949	96.5	0.00	
LAHONA	269,474	56,095	213,379	77.2	9.26	
esom Mpsylvania	272,530	59,394 87,726	213,136 905,471	70.2 • 91.2	0.20 0.10	
COE BOLAND	993,197 -150,692	#1112 <b>0</b>	150,692	100,0		
UTH CAROLINA	302,543	14,906	367.637	96,1	0.04	
NTN DAXOTA	12,075		12,075	100.0	0.00	
MESSEE	463,700	33,902	430,006	-92,7	0.00	
KAS	570,065	966	569,999	99.0	1.11	
Ан .	6 <u>6</u> 7,975	490,000	177,175	26.5	2.77	
RHON7	19,911	0	19,911	160.0	0.60	
rsinia Smimstom	900,495 036,494	404,865 567,160	503,630 267,126	50,9 32.0	0,96 2,13	
ST VIRGINIA	349,945	221,950	127,945	36.6	1.73	
SCONSIN	499,059	172,722	326, 337	. 65.4	0.53	
ONING .	95,473	44,057	51,416	53.9	0,66	
707AL U.S.	829,411,645	812.220,033	\$17,103,612	50.4	8.71	
KRICAN SANDA	6,740	•	6,740	100.0	0,00	
AN .	11,021	•	11,021	100.0 100.0	9.06	
ERTU RICO UST TERRITORY	317,414 20,017	0	317,414 20,017	160.0	0.00	
MEIN ISLANDS	•	•	2,0,0.1	•	•	
OUTLYING AREAS	\$355,992	30	. 8355,442	109.0	0.00	
S. S OUILYING AREAS	<b>829,767,637</b>	\$12,220,033	\$17,539,604	50.7	0.70	



# TABLE 7.46 - OUTLAYS FOR VOCATIONAL EDUCATION (VEA) SECTION 150 PROGRAMS, SY AUTHORIZATION VEAR-AND SOURCE OF FUNDS, AND SY PROGRAMS SCHOOL YEAR 1978-79.

FISCAL YEAR 1979			FISCAL YEAR 1978		
TOTAL	PEDERAL	FEDERAL	TOTAL	NON- Federal	FEDERAL
				••••••	
213,675,009	.205,770,27 <del>.</del> 9	7,904,730	27.175.904	28 64 8 470	
-			2.7.1.37.04	23,013,470	4,162,4
8,019,658	4,692,078	3,327,580	2,384,719	867,505	1,517,2
203,867,591	138,186,959	15,680,632	14.805.559		
			10,003,331	11,307,140	5,416,4
6, .54, 707	4,363,431	1,991,276	415,812	T#2.082	
213,103	47,191	165,912	0	0	573,7
\$432,130,068	1407.000.074	\$39 A74 A74	· · · · · · · · · · · · · · · · · · ·		
	707AL 213,675;0c9 8,019,658 203,867,591 6,3547,707	TOTAL FEDERAL  213,675,009 205,770,279  8,019,658 4,692,078  203,867,591 38,186,959  6,3547707 4,363,431  213,103 47,191	TOTAL FEDERAL FEDERAL  213,675,009 205,770,279 7,904,730  8,019,658 4,692,078 3,327,580  203,867,591 38,186,959 15,680,632  6,354,707 4,363,431 1,991,276  213,103 47,191 165,912	TOTAL FEDERAL FEDERAL TOTAL  213,675,009 205,770,279 7,904,730 27,175,904  8,019,658 4,692,078 3,327,580 2,384,719  203,867,591 38,186,959 15,680,632 16,805,559  6,354,707 4,363,431 1,991,276 915,812  213,103 47,191 165,912 0	TOTAL PEDERAL PEDERAL TOTAL PEDERAL  213,675,009 205,770,279 7,904,730 27,175,904 23,013,470  8,019,658 4,692,078 3,327,580 2,384,719 667,505  203,867,591 38,166,959 15,680,632 16,805,559 11,389,140  6,354,707 4,363,431 1,991,276 915,812 342,082  213,103 47,191 165,912 0 0

NOTE: NO SUBSECTION TABLE FOR THE FOLLOWING: 1/STATE ADMINSTRATION - MASSACHUSETTS AND NEW HEXICO DNLY.

SOURCE: U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



# TIBLE 7.47 - OUTLAYS FOR EDUCATION PROGRAMS IN NON-ECONOMICALLY DEPRESSED AREAS UNDER (VEA) SECTION 153, SY SOURCE OF FUNDS, AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (SINCLUSES CARRYOVER)

		######################################	•••••	FEDERAL AS	RATIO OF
S STÁTÉ OR OUTLYING AREA	TOTAL	FEDERAL	PEDEPAL	PERCENT OF TUTAL	NON-FEVER
<u>, , , , , , , , , , , , , , , , , , , </u>			*****************	***********	*********
Lásana	772,176	671,713	100.463	13.0	4.67
LAGRA: '	347,687	294,197	100,463 55,492	15.9	5.30
RIJONA'	4,281,667	4,878,644	191,023-	4.5 8.7	21,41
M. IPORNIA	772,176 349,689 4,281,667 181,586 56,319,854	671,713 294,197 4,898,644 - 165,722 54,812,123	15,864 1,506,731	8.7 2.7	18.45 36.37
NLORADO -	3,175,663	8,049,454	284;209	7,0	10.10
DIMECTICUT.	4,281,662	4,024,864	174,798	4.2	22.77
ELANARE"	917,721	880,867	37,654	4.1	23,37
ISTRICT.OF COLUMBIA LORIDA	, 216,002 703,556	188,449 445,257	27,553° 258,299	12.8 36.7	6,84
LONG I A	5,583,521	\$,396,041	187,400		
ÅHAII -	684,459	···· 655,126	27,333	3,4 4,3	28.74 22.33
DANO	1,894,752	1,813,228	83,532	7.6	12.13
LLINOIS	18,448,867	8,842,576	1,606,271	1574	5.51
MOTANA	2,416,465	2,126,181	240,284	12.5	7,32
DMA LMGAS	3,467,269 463,976 2,927,634 3,392,698	3,168,462	306,747 15,788	8.8 4.0	. 10.30 24.27
ENTUCKY	8,927,834	368,018 2,717,323	210,511	7.2	12.91
Butgsama Aine	3, 302, 474	2,717,323 ;2,847,435	\$45,255	14.1	5.22
MYLÂNO		-10,210,121	4Š6,50 <u>1</u>	•.	• •
NAGACHUGETTS	18,666,622	. 3,962,0 <b>5</b> 2	478,741 78.247	4.3	22,37 <b>5</b> 2,64
CHISAN	4,037,319	17,744,560	75,267 783,583	4.3	22.50
INVESTA	2,000,703	2,377,476	231,287	8.7	10.28
801801PFI	\$7889,951	4,643,318	446,633	4.4	10.40
BOÙURÍ. MTANA	3,453,378	3,180,042	353,336	16.5	<b>8.77</b>
ORASKA	1,489,788	200.015.1	88.A11-	7.1	13.15
VADÁ S' W MAMPSHIRE	901,488 823,614	841,764 752,400	\$9,50 71,214	6.6	14.15 10.57
w jersey				-	
M MEXICO	2,475,731 682,271	1,871,730 \$70,771	\$83,801 31,500	-23.6 5.2	3,24 -18,12
W YORK	34,857	•	32,457	180.0	0.00
ATH CAROLINA	0,146,516	7,965,682	160,834	2.0	47.65
RTH-DAKOTĀ-	1,067,286	1,017,971	51,315	4.8	17.84
IEO Lanona	20,000,344	20,739,215	157,129	8.8	130.33
EOOM	249,524	103,105	146,361	58:7	0.70
nnsafaund Coe Istand	1,499,369 \$30,875	1,249,897	249,452	16.6	5.01
	530,075		13,796	2.0	38.06
UTH-CAROLINA UTH-BAHOTA	1,733,814	1,666,820	8 66,174	3,8	25.18
HHESSEE	4 44	111111111	233,771	<b>i</b> .i	11.99
AM AM	3,023,643 13,734,871 377,737	13,672,604 793,167	262,267 84,770	1.7	52.13
	2,,,,,,,,			22,4	3,46
RHONT REINIA	767,480 8,7 <b>36</b> ,76 <b>9</b>	718,072 8,332,562	49,328 406,287	6,4	14.56
SHINGTON	16,858,539	16,556,733	273,806	4.6 1.7	20.51 56.35
AIMIGRIV TO	847,443	776,023	71,420	8.4	10.87
onine», Sconsin	3,723,808 1,183,331	3,483,578 1,140,154	239,430 43,177	6.4 3.6	14.55 26.41
TUTAL U.S.	0235,747,267	9224,065,227	811,292,040	5.0	19.16
		36417037661		<b>7.</b> V	
ERECAN BANOA IAN	<u></u>			•	
MERTO RICO NAST TERRITORY	5,873,646	4,718,522	375,124	7.4	12.58
ROIN ISLANDS	•	•	8	•	. •
	<u>*</u>			_	
OUTLYING AREAS	85,073,646	84,716,522	2375) 124	7.4	42.58
.8. 8 OUTLÝIMS AREAS	8248,850,913	0228,703,749	552+067+164	5.0	18.96
	•				



# TABLE 7:48 -- OUTLAVS FOR ANCILLARY SERVICES IN NUM-ECONOMICALLY DEPRESSED AREAS UNDER (VEA) SECTION 159, SY SOURCE OF FUNDS, AND BY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (IMCLUDES CARRYDVER)

STATE OR OUTLYING AREA		NON-	* * /	PEDERAL AS PERCENT UF TOTAL	RATIO OF HON-FEDERA TU FEDERAL
~~ <u>,,,</u> ~~ <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				***********	******
LABAMA	•	•	0		•
LASKA. RIZONA ₹	477.40		0	•	•
RKANSAS	172,688 420	.62,346	110,342	63.9	0.57
ALIFORNIA	2,968,646	240 1, <b>9</b> 33,117	100 1,815,529	42.9 34.2	1.33 1.92
DLORADO	192,425	146,117	46,308	24.1	3,16
DWMECTICUT-	184,713	22,695	102,010	61.6	8.22
LAMARE STRICT OF COLUMBIA	3,827	•	3,027	188.8	8.80
OREDA	.136,940	4,762	131,978	76.4	0.04
IONS I Â	182,564	40,173	54,391		
WAII	43,816	43,816	34,341	53.0 8.8	9.89 ₂
AHO LINOIS	219,139	205,352	13,767	6,3	14.89
DIAMA	141,623	68,633	80,990	57.2	8,75
MA	60,559	23,059			
HOAD	272,514	125,003	.37,500. 147,511	61.9. 54.1	0.61. 0.85
intucky Wiaiaha	99,218	50,252	48,766	49,4	1.03
INE	176,165	32,441	. 143,724	81.6	4.23
RYLAND	278,384	110,344	,		_
SSACHUSETTS	78,580.	61,580	168,048 17,000	68.4 21.6	8,46 3.62
CHIBAN	262,319	76	262,221	108.8	0.00
immerota Ibbiobippi	1,871,796	1,021,315	50,401	4.7	20.23
IÁUOBB	75,785	•	•	•	•
NTANA '	,73,703	5,422	.70,163	45.6	0.08
BRASKA	183,629	154,065	34,564	18.3-	4:45
YADA W mampshire	32,826 43,243	29,494	3,332	19:2	8,85
w JERSEY	•		43,243	108.0	6,00
N NEXICO	-163,284	13,119	150,165	45.0	0.07
N YORK	130,487	100,000	30,407	23.4	3:20
RTH CAROLINA RTH DAKOTA	153,745	136,591	17,354	•	•
110			·	, ,11.3	7.87
EG HOMA	118,056	33,093	84,963	72.0	0.39.
ESON	49,114	- 0	49,114	100.0	0.00
MMBYLYANIA	370,157	23,150	347,607	93.7	0.07
ode - Islano	100,031	106,031	•	0,0	•
WITH CAROLINA	•	•	<b>b</b> -	•	• • .
WTM`DAKSTA NNESSEE	175,369	134,460	40,989	23.3	3.29
XAS	113,222 457,204	77,655	35,567 457,284	-31.4 100.0	2.10
AM	353,097	163,639	189,456	53.7	0.00. 0.86
RHONT	44,538	33,676	.10,862	24,4	3,10
REINIA	430,075	203,457	234,618	53.6	0.87
SHINGTON BT VIRGINIA	487,105	119,652	367,453	75.4	0.33
SCOMBIN	73,440 154,235	* ************************************	<b>65,</b> 000	88.5	0.13
ONIHE	24,167	12,084	65,693 12,083	42.6 50.0	1.35 1.00
TOTAL U.S.	\$10,159,545	85,416,313	94-743,232	46.7	1.14
ERICAN SAHOA	•		۵	_	
AH.		`Ŏ	•	•	
erto rico UBT territory	244,032	143,270	.101,562	41.5	1.41
RBIN ISLANDS	0	0	0	•	`, <b>•</b>
		•		· <del>·</del>	•
OUTLYSHE AREAS	\$544,832	\$143,270	\$101,562	41.5	.1.41



#### TABLE 7.49 - OUTLAYS FOR EDUCATION PROGRAMS IN ECONOMICALLY DEPRESSED ÁREAS UMBER (YEA) SECTIUM 150, SY SOURCE OF FUNDS. AND SY STATE OR OUTLYING AREAS SCHOOL YEAR 1978-79 (INCLUDES CARRYQYER)

		FEDÉRAL AB				
STATE OR DUTLYING AREA	•	++++++++++++++++++++++++++++++++++++++				
	-TOTAL	FEDERAL	FEDERAL	PERCENT OF TOTAL	NON-FEDERAL TU FEDERAL	
FALABANA		- v				
ALASKA	5,904,931 51,986	'5,271,061 18,390	. 433,870 .	10.7	4.32	
ANIZONA	404,612	260,901	33,596 143,711	· 64.6 35.5	0.55	
ARKANSAS	4,762,081	4,331,418	430,663	33.3	1.82 10.06	
CALIFORNIA	15,867,610	12,949,934	2,117,676	14.1	6.12	
COCORSOO	1,815,404	1,601,936	213,470	-11.8	7.50	
COMMEC? SEUT	2,141,174	1,934,234	286,936	9.7.	7.35	
DELAWARE.	480,993	• •32,493	48,300	7.1	:13.10	
FLORIDA	141,104 16,471,126	68,674 15,789,356	72,430 481,748	51.3	0.95	
		13/14/1336	4011,444	4.1	23.16	
AISKOBO IIANAM	6,850,511	5,420,665	631,846	10.4	8.59	
SONO	472,132 789,277	365,646	104,484	22.0	3.43	
"ILLINOIS	4,487,114	632,981 4,151,398	76,296. 255,718	10.8	8.30	
INDIANA	3,420,811	3,091,631	537,180	5.8 14.9	- 16.23 5.73	
I Owa	9.444.444	-	4			
KANSAS	1,411,691 4,040,155	1,323,868 3,799,318	87,823 240,837	4.2	15.07	
KENTUCKY	5,737,991	5,297,578	440,413	6.8 7.7	15.78 12.03	
LOUISIANA	4,257,647	3,923,666	333, 981	7.6	11.75	
MAINE	1,648,145	1,591,023	77,122	4, 6	20.43	
MARYLAND	5,452,849	-5,061,988	390,861			
MASSACHUSETTS	10,870,791	10,499,439	371,352	7.2 3.4	12.95 . 28.27	
¢MICHIBAN≠ ∮MINNESOTA	897,148	157,784	739,364	82.4	0.21	
MISSISSIPPI	-2,132,484	1,827,364	305,122	14.3	5.99	
en and	257,484	25,598	\$31,804	90.1	0,11	
HISSOURI'	4,778,874	4,354,550	424, 324	8.9	10.26	
-MONTANA IMBORASKA	_0	0	.0	•	•	
:NEVADA	1,140,432 143,8 <b>8</b> 7-	978,993	161,439	14.2	. 60.0	
NEW HAMPSHIRE	1,029,180	112,506 957,600	31,321 71,580	21.6	3.59	
MAN YOUR AREA	•		717300	7.0	13.38	
NEW JERSEY *NEW NEXTED	(3,230,550	2,452,238	500, 312.	18.1	4.52	
MEN-YORK	2,473,460 12,668,702	2,283,082 10,018,178	190,378	7.7	11.99	
MORTH CAROLINA	5,509,455	4,476,780	2,650,524 1,032,675	20.9 18.7	3.78 4.34	
- NORTH - DAKOTA	641,263	554,121	-87,142	13.6	6.34	
ONIO	30,298,924	20 250		•	-	
OKLAHOMA	4,989,407	29,218,416 4,653,679	1,080,508 335,728	3.6	27.04	
ORESON?	294,285	120,324	175,961-	6.7 59.4	13.86	
PENNSYLVANIA .RHOOE ISLAND	1,411,186	609,476	801,710	56.8	0.74	
MANOR TOTALD	1,956,199	1,873,625	82,574	4.2	22,49	
SOUTH CAROLINA	5,043,243	4,620,111	423,132	8.4	10.92	
SCUTH DAKOTA	325,475	271,833	53,442	10.5	5.07	
TEMMEDDEE TEXAD	14,994,899	13,647,095	1,347,804	9.0	10.13	
UTAN	18,813,416 2 <b>99</b> ,422	18,373,866- 204,625	439,550	2.3	41.80	
	2,4,455	E4414%	94,797	31.7	2.16	
VERNONT VIRGINIA	405,271	366,544	38,727 ·	. 9,6	9.46	
WASHINGTON	3,958,317	3,667,069	291,248	7.4	12.59	
HEST VINSINIÀ.	391,011 2,915,196	48,145 2,465,560	342,866 249,6 <b>3</b> 6	67.7	0.14	
MISCONSIN	1,231,871	750,779	481,092	8.4 39.1	10.68 1.54	
MYONING-	31,876	2,930	28,946	90,8	0.10	
TOTAL U.S.	\$218.430,978	\$197,516,735	\$20,914,243	9,6=	9,44	
AMERICAN BANDA.	51,896	34,880	15,010	28.9	2.46	
SUAN SUESTA DECA	337	0	337	100.0	0.00	
PUERTO RICO TRUST TERRITORY	2,189,939	2,022,484	167,455	7.6	12.08	
VIRGIN ISLANDS	·0	0	0	•	:	
Rust útus and			•	•	•	
OUTLÝING AREAS	\$2,242,172	\$2,059,364	\$182,808	8.2	11.27	
U.S. A OUTLYING AREAS	\$220,673,150	\$199,574,099	\$21,097,051	9.6	7.46	



#### TABLE 7.30 -- DUTLAYS FOR ANCILLARY SERVICES IN ECONOMICALLY DEPRESSED AREAS UNDER (VEA) SECTION 150, "Y SOURCE OF PUNDS, AND SY STATE OR OUTLYING AREA: SCHOOL YEAR 1978-79 (INCLUDES CARRYDYER)

		OUTLAYS			34.00
STATE OR OUTLYING AREA	TUTAL	NON• PEDERAL	FEDERAL	FEDERAL AR PERCENT UF TOTAL	RATIU OF NON-FEDER TU FEDERA
LABAMA	•				_
LASKA Rizona	, · · ·	ě	i		
RKANSAS	15,350 11,410	<b>6,23</b> 0	15,350 4, <b>080</b>	-100.0 42.0	0.00 1.34
aliponnia	0	ń	0	•	
DLORADO DINECTICUT		<b>1</b> 0	*	•	•
ELAHARE	615 \$4,967	35,140	615 19,027	100.0 34.6	0.00 1.89
STRICT OF COLUMBIA ORIDA	02,001	54,490	24,311	34.2	1.92
,	2,179,014	2,012,346	166,668	7.6	12.07
iorgia Naii	344,973	137,023	207,150 ·	<b>♦0.</b> 0	9.67
OHAO	6,049	3,327	2,722	45.0	1.25
MINOIS.	44,085	•	44,085	100.0	0.00
DMA-	167,520	70,216	99,302	Š8.6	
MBAS	96,281	83.444	12,637	.13.1	0.71 .6.62.
INTUCKY DUI MI ANA	207,574° 0:	105,131	162,443	49,4	1.03
ATHE	-11,873	ŏ	11,073	100.0	0.00
ARÝLAHO.	159, 154	79,964	79,190	49.8	.1.01
NSSACHUSETTO ICMISAN	180,137 5,149	163,187	17,000 5,149	100.0	7.60
IMMESOTA	675,870	.612,454	62,616	· 9.3	.0.00 9.78
1001001PP1	•	, <b>0</b>	.0	•	•
880ÚRI. NTAMA	104,656	7,764	76,672	4,50	0.00
BRASKA-	33,276	.14,033-	19,243	57.8	0.73
Verniiii W Manpanere	1,668	•	1,668	100.0	0.00
	•		•	•	
H`ZERSEY- H™EXICO	•	0	0	•	<b>⋄</b>
N YORK NTH CAROLINA		Ŏ	Ŏ.		:
MTH : DAKOTA	. "9		0	:	•
10	420,812	. 8, 141	412,671	: 98,1	0.02
Lahoha`	629,650	301,501	240,077	39.4	1.54
iegon"; Innrylvania	40,874	139;091	48,874 158,663	100.0 29.7	0.00 2.37
OOE, ISLAND	34,739	29,595	9,144	23.6	3,24
UTN CAROLINA	452,363	204,743	247,620	54.7	0.83
UTH DAKOTA HHEBBEE	499,924	333,775	166,149	33,2	.2.01
XA8.,."	151,940	33,773	151,940	100.0	0.00
AN	.0.	0	· •	• •	•
ŘÍNONT/ REINIA	15,200		15,200	,100.0	0.00
SHINGTON	116,282	57,775 0	58,507 0	50.3	0.99
st-virsinja Sconsin	2,000 183,976	100,356	2,000 054,58	100.0 45.5	0.00
ONING.	3,780	1,990	1,990	50.0	1.20
TOTAL U.S.	07,145,174	04,643,898	92,501,276	35.0	1.86
erican-bahda	3,612		3,612	100.0	0.00
AN . ERTO RICO	121,733	A4 . A4E	•	•	•
iúst; teñrs tory	• • •	. 61,615	<b>♦0,118</b> • • • • • • • • • • • • • • • • • • •	49.4	.1.65
MEIN ISLANDS	•	•	0	•	•
OUTLYING AREAS	0125,345	\$61,525	463,730	50.8	<u>6.</u> •€7
S DUTLYING AREAS	07,270,519	84,705,513	\$2,565,006	35.3	1.83

, BOUNCES . U.S. DEPARTMENT: OF EDUCATION, MATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



#### Student Choice of Program

Vocational education serves diverse needs of young people and adults interested in gaining or improving occupational skills. In addition to considering the institutional factors associated with program operation, such as facilities; staff, and financial support, it is useful for those planning and offering programs to view vocational education as it is perceived by students. Of particular interest are the aspirations of students for vocational education and their reasons for selecting programs. The picture that emerges from a review of the students' perspective is a remarkable constancy in students' perceived needs for vocational education, together with distinct profiles of choice of field depending on each student's situation and prior experiences. The differences in choice profiles by program area suggest that different student groups are served by different types of vocational education. These profiles also suggest the present extent of flexibility in student demand for vocational education and program areas where demographic and social factors may provide some stimulus for growth.

A steady share of high school seniors have aspirations to attend technical or vocational schools. In 1980, 26.8 percent of all high school seniors expressed such a desire, compared with 28.4 in 1978 and 27.0 in 1976 (table 8.1). Aspirations differ slightly between the sexes, with more males than females hoping to secure vocational training, by a margin of about five percentage points. Racial groups differ from each other in aspirations, with blacks showing increasing interest in vocational education over time (chart 8.1). In 1980, more blacks than whites were expressing hopes of vocational training. The only readily apparent regional difference in aspirations for vocational education was a lesser interest among seniors in the Northeast compared with other regions of the country. A difference of up to eight percentage points has consistently set this group apart from the others.

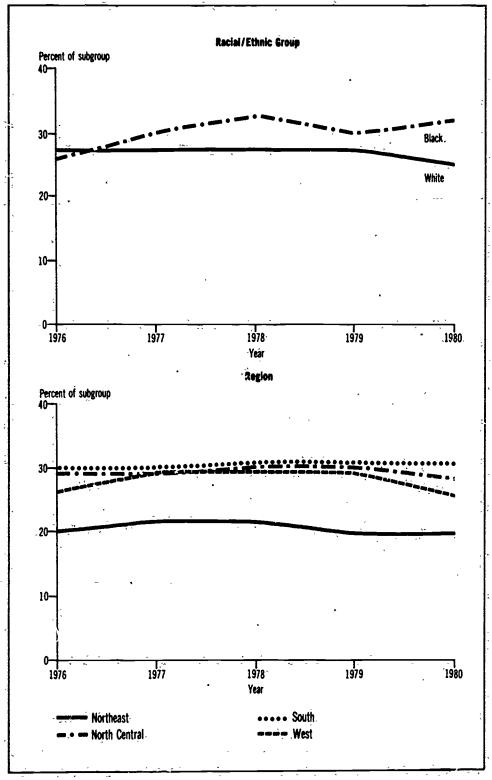
Comparisons of these aspirations with plans provide insights into students' views of accessibility and likelihood of attaining their first choices of educational opportunities. Somewhat larger percentages of many of the population subgroups examined earlier said that they definitely of probably would attend technical or vocational school (table 8.2). These larger shares may reveal that vocational education is a second choice for many young people whose first hope is to graduate from college. In many cases, the addition of this group to those having a first preference for vocational training raises by two or three percentage points the share of the population subgroups that plan to attend technical or vocational school.

When the population of high school seniors is grouped by high school program, much greater differences among subgroups in aspirations and plans are evident than were noted as a result of sex, race/ethnic, or regional grouping. High school curriculum appears to be a much more dominant variable in explaining later choices: While 19.3 percent of all seniors in 1972 indicated as a first choice they would like to attend vocational or technical school (students were asked in this instance to select only one choice), the responses by subgroup varied considerably. Only 7.1 percent of students in an academic curriculum made this choice compared with 40.9 percent of those in a vocational curriculum (table 8.3). In comparing aspirations to plans for this group, it is evident that many students did not expect to pursue educational activities even though they would have liked to do so. Over 36 percent of the students in a vocational curriculum stated that they did not expect to go further than high school in educational attainment:

Immediate plans of high school seniors included work as well as training. Almost 25 percent of students in vocational curriculums expected to take vocational or technical courses at vocational schools or junior or community colleges or begin on-the-job training during the following year. However, an even larger share — more than 46 percent — intended to work full time. Another 11 percent planned to pursue academic course work. This pattern contrasts with that for all seniors: 17 percent planned to pursue vocational studies through some means, 44 percent planned academic course work, and 25 percent intended to work full time.



Chart 8.1 High School Seniors Aspiring to Attend Technical or Vocational School





SOURCE: Table 8.1

Access to vocational education appears to be at least one major reason for students' entering vocational education when they do. Among students in occupational programs in noncollegiate postsecondary schools, lack of training offerings in high school was cited by between 33.1 and 46.6 percent of students in the various program areas as their reason for not taking vocational training while in high school (table 8.4). For some occupational areas, a sizeable proportion of students had been enrolled in college preparatory courses during high school; those training in the Health program area were most likely to cite this reason for postponing vocational training (44.3 percent). Smaller proportions of students in other areas had been enrolled in college preparatory courses—10.0 percent of those in Home Economics, 14.7 percent of those in Trade and Industrial programs.

Further examination of the timing of choice of vocational training suggests that choices vary for those students enrolled in different areas of training in noncollegiate postsecondary schools. Students entering Agriculture and Health programs made their decisions early (chart 8.2 and table 8.5). Almost half, 49.0 percent, of those in Agriculture decided to enter that field when they were in high school. A high percentage of those in Health, 40.2 percent, also made their choice at that time. For the large enrollment areas of Office Occupations and Trade and Industrial, more students made their choice of field right after leaving high school than while they were still enrolled. Three of the program areas appear to be avenues to labor force reentry for persons who left (or never entered) the labor force in order to rear families. In the Health, Home Economics, and Office Occupations program areas, all areas where a sizeable majority of students are female, a larger percentage of students indicated they made their choice of area after raising a family than selected the area after leaving college or military service.

Reasons for program selection as well as timing of choice are of interest. In three of the vocational education program areas more than half of the students gave as the reason for their choice that they "always wanted to" enter that field(table 8.6). Agriculture (66.4 percent), Health (57.1 percent), and Home Economics (59.3 percent) were those areas where preferences were formed earliest. Other areas had smaller, but substantial, proportions of students who reported early interest in their fields: 43.6 percent in Distribution, 32.4 percent in Office Occupations, 40.0 percent in Technical, and 48.0 percent in Trade and Industrial.

Much smaller numbers of students entered those fields because of reading about them or through school advertisements. The one area where school publicity appeared to make the greatest difference, Office Occupations, was chosen by 24.4 percent of students. Personal contacts contributed even smaller percentages of enrollments, with family or friends cited more frequently than teachers or counselors. The single exception to family or friends as the most important influencing factor occurred in the Distribution area, where 11.0 percent cited a teacher or counselor as their reason for selecting their program, compared with 8.8 percent who listed a family member or friend.



Chart 8.2
Timing of Choice of School for Noncollegiate Postsecondary School
Students in Selected Occupational Programs, 1979

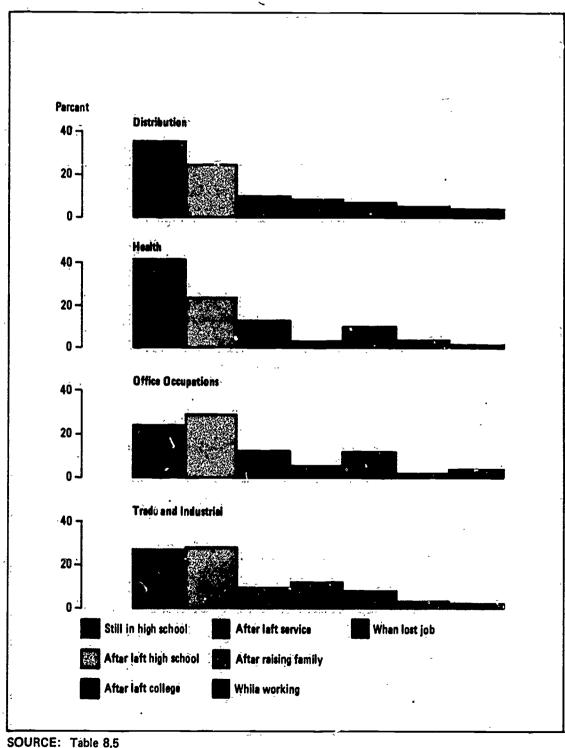




Table 8.1
Aspirations of high school seniors to attend technical or vocational schools, by sex, race, and region: 1976 to 1980

Item	1976	1977	1978	1979	1980
"Suppose you coul and nothing stood want to attend a school?":	in your way	. Would yo	u		<u>^</u>
			Percent		
Total	27.0	27.7	28.4	27.9	26.8
Sex	•		Ar Dang		
Male	29.1	30.3	30.6	30.6	.29.6
<b>remale</b>	24.8	25.3	26.1	21.1	24.0
Race					,
White	27.1	27.1	27.2	27.4	25.8
Black	26.0	30.2	33.9	30.2	32.1
Region	•				·
Northeast	20 -	22.0	60.0	00.0	
North Central	20.6	22.0	22.3	20.2	20.2
	29.1	29.4	30.2	30.5	28.2
South	29.3	29.4	30.5	30.3	30.4
West [,]	27.8	29.9	29.7	29.5	25.9

SOURCE: The University of Michigan, Institute for Social Research, Monitoring the Future, 1976, 1977, 1978, 1980.

Table 8.2 Plans of high school seniors to attend a technical or vocational school after high school, by sex, race, and region: 1976 to 1978

Year and		<u>Sex</u>		ce		Region	<u>n</u>	
plans	Male 	Female	White	Black		<ul><li>North</li><li>Central</li></ul>		h West
"How likely is it that after		-						1
high school you will								
attend a technical or vocational school?":						,		
1976		•	Perce	ntage di	stributi	on		
Definitely will	8.6	· 7.8	8.0	9.9	6.9	9.0	9.0	6.9
Probably will	20.1	16.8	17.2	25.5	12.3	18.5		21.9
Probably won't	35.6	30.1	33.7	29.4	26.6	, 33.8	33.2	38.8
Definitely won't	35.7	45.3	41.2	35.2	54.1	38.7	36.0	32.4

8.6

16.8

28.4

46.2

1977		
Definitely will	9.6	8.3
Probably will	20.0	16.5
Probably won't	32.2	28.9
Definitely won't	38.2	46.4
1978		•

1077

Definitely will

Probably will

Probably won't

Definitely won't

SOURCE: Institute Questionnaire Respo	for Social Research, The Universes from the Nation's High	versity of Michigan, Monito School Seniors, 1976, 1977,	ring the Future:
, -			
0		<b>2</b> 86	

8.4

16.3

31.4

43.8

8.2

8.2

30.3

43.7

12.4

27.4

24.8

35.4

12.9

26.5

25.9

34.7

8.4

12.8

25.5

53,3

7.6

13.6

23.8

55.0

8.4

19.1

31.4

41.1

9.1

19.6

31.0

40.3

9.7

20.5

30.7

39.1

9.1

22.0

30.3

38.6

9.5

21.0

36.3

33.3

10.2

22.1

35.5

32.2

9.2

21.7

30.9

38.2

Table 8.3 Plans of high school seniors for the year after high school, by high school program: 1972

	A1-1		High school program Academic General Vocati				
Plans	students	Academ		Vocationa			
	Weighted	percentage	distribution	of students			
Total	100.0	100.0	100.0	100,0			
Working full-time Entering an apprenticeship or on-the-job training	25.6	8.6	33.3	46.6			
program.  Going into regular military service (or service	2.8	1.2	4.7	3.6			
academy) ·	3.5	2.3	4.8	4.2			
Being a full-time homemaker Taking vocational or technical courses at a trade or business	2 <b>.</b> 8	0.9	3.9	4.7			
school full-time or part-time aking academic courses at a junior or community college	9.1	4.7	11.0	14.9			
full-time or part-time  aking technical or vocational subjects at a junior or community college full-time	10.8	13.6	10.9	5.3			
or part-time ttending a four-year college or university full-time or part-	5.4	4.9	5.8	6.0			
time orking part-time, but not	33.6	60.4	16.7	6.5			
attending school or college ther (travel, take a break,	2.1	1.0	3.1	2.7			
no plans)	4.1	2.3	5.7	5.4			

NOTE: Details may not add to totals because of rounding.

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975.



Table 8.4
Reasons for not taking vocational training in high school of students in noncollegiate postsecondary schools with occupational programs, by area of current program: 1979

₹.		<del>.</del>	<u> </u>	_ Area of	Current Program	,		
Reason	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupations	Technical	industrial
	. ,	,		Percentag	e distribution.	<del></del>		
Total School did not offer any	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
training [aking college prep	40.15	40.08	33.05	33.05	46.64	40.21	40.77	43.71
course	23.80	16.90	23.14	44.33	9.89	22.68	25.56	14.73
as not interested ould not arrange	19,47	16.01	24.83	14,19	9.54	20.37	21.70	20.62
schedule anted to postpone after	6.27	14.21	4.01	3.77	4.59	7°.59°	5.28	7.00
high school id not offer desired	4 _e 99	3 _è 97 ^c	10.88	2.49	6 <b>.</b> 95	4.55	2.96	6.46
program-	_1.36	1 . 54.	2.26	.71	4.71	1.47	1.45	1.48
ther ot reported	.99	3.59	- 4-	ુ. 34		1.13	.38	1.41
or reported	2.96	3.71	1.83	1.11	17.67	2.00	1.90	4.59

NOTE: Details may not add to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.

Table 8.5
Timing of Choice of school for students in noncollegiate postsecondary schools with (coupational programs, by area of program: 1979

Timing of			ways 1	Area of	current program	<b>.</b>		
decision	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupátions	Technical	Trade and industrial
Y Y Y Y	•		<del>-</del>	_ ,	<del></del>	<del></del>	<u> </u>	<del></del>
•		•		Percenta	ge distribution			
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
till in high school	28.80	49.04	35.64	40.21	26.12	23.95	29.28	26.67
fter left high school	26.52	21.50	24.47	22.42	38.56	29.34	22.92	27.13
fter left college	11.22	11,18	9.47	13.33	6.72	12.45	11.75	9.47
fter left service	8.70	6.09	8.09	2.71	4.85	5.19	17.47	11.91
fter raising family	9.23	1.26	6.10	9.84	10.45	11.50	3.15	8.96
hile working	3.09	· 20	5.67	2.14	3.61	2.96	2.42	3.60
oss of spouse support	1.64	.96	1.04	1.16	2.61	2.91	.41	1.24
fter injury/disabled	.89	5.14	•7Ŝ	36	0	1.14	.53	
nen lost job	2.97	.30	3.58	1.20	1.31	3.70	4.11	.98
ther	4.05	1.46	2.59	5.24	4.35	3.70 3.72	4.64	2.97
ot∍reported ⁻	2.90	2.87	2.59	1.40	1.43	3.14	3.32	3.77 3.30

NOTE: Details may not add to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.



Table 8.6

Reasons for selection of program for students in noncollegiate postsecondary schools with occupational programs, by area of program: 1979

		·	<u> </u>	Area of	current progr	cam	,	
Factor for selection	Tôtál	Agriculture	Distri- bution	health	Occupationa home economics	Office occupations	Technical	Trade and industrial
				Percentage	distribution	1		
Tctal Family/friend	100.00 13.95	100.00	100:00	100.00	100.00	100 <b>.</b> 00	100.00	100.00
Ceacher/counselor	6.31	9.67 .86	8.77 10.98	14.38	12.00	14.92	13.10	13,65
Someone else	9.11	4.73	7.29	2.84 7.98	6.03	9.34	5.81	5.52
lways wanted to	44.32	66.41	43.57	57 <b>.</b> 96	· 2.86	8.46	9.14	10.26
eed more training	5.14	4.83	9.42	3.06	59.27 3.11	32.41	40.03	48.01
ead about field	15.28	11.08	12.64	11.28	10.32	5.60 20.43	7.20	4.99
chool advertisements	2.35	•96	2.43	1.01	3.73	3.95	19.55	12.63
anted better job	1.78	1.06	1.47	.85	1.31	2.68	1.83 1.99	1.90
ther	.71	.20	1.06	.4.	1.37	1.14	.42	1.53
ot reported	1.05	.20	2.38	1.07	0	1.07	.93	.53 .98

NOTE: Details may not dd to totals because of rounding.

SOURCE: United States Department of Education, National Certer for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.

#### Costs Facing Vocational Students

Vocational education imposes costs of time and, in some cases, money or geographic relocation on students. These costs are as diverse for vocational education students as are the institutions offering the programs and the areas in which training is available. Because costs necessarily are a factor of access, it is appropriate to assess the types of costs and the programs or institutional settings in which they occur.

A major investment required of vocational education students, as of other students, is time. Profiles of high school students by their curriculum show that students in each of the three high school programs—general, academic, and vocational—spend some time each week in both academic and vocational instruction. Yet the allocations between academic and vocational instruction are distinct for students in the three programs. Vocational students spend on average between 5 and 7 hours per week in vocational instruction, compared with the 1 to 2 hours per week spent in vocational instruction by academic students (chart 9.1 and table 9.1). Vocational students also spend fewer hours in academic instruction each week than do academic students, by 2 to 4 hours. As has been observed earlier, high school program, in many instances, defines groups with stronger similarities than do sex, race, or other demographic characteristics. In this case, high school program is again more relevant in describing a student's weekly activity than are other student characteristics.

Postsecondary vocational programs vary considerably in time required, both on a weekly basis and over a calendar period. Some program areas display a range of class times. The Distribution, Office Occupations, and Technical areas require less than 30 hours per week for 20 percent or more of these programs offered in noncollegiate postsecondary schools (chart 9.2 and table 9.2). Health, Occupational Home Economics, and Trade and Industrial areas, by comparison, require at least 30 hours weekly in over 65 percent of their programs. The most demanding areas in terms of hours per week of studying required are Fiealth and Agriculture.

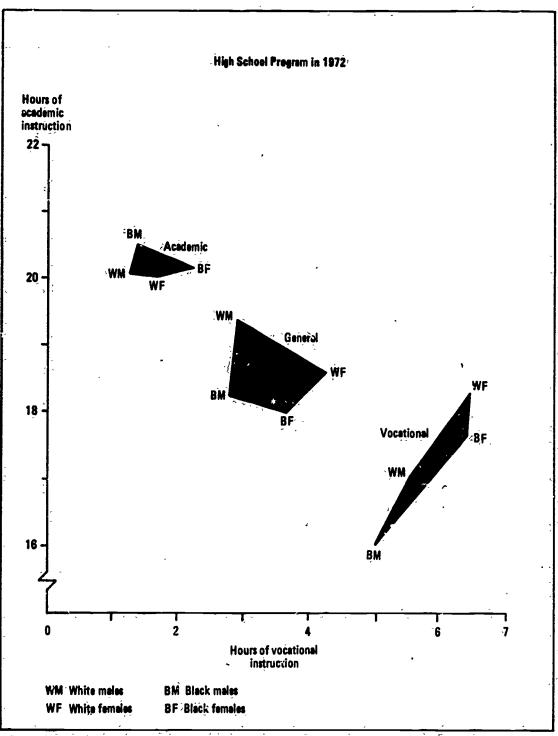
The elapsed time required for noncollegiate programs is again dependent upon program areas. Furthermore, the differences in average instructional time by program areas for public as compared to private schools suggest that these institutions offer quite different training opportunities. For example, the average length in hours for Distribution programs is 999 for public schools, only 327 for private. Yet for Health programs, averages are 1,214 for public schools, 1,977 for private (table 9.3). The shorter programs tend to be in Office Occupations and Occupational Home Economics, while programs in Heath and in Trade and Industrial areas require more time.

While much, if not all, of secondary instruction is available free of charge, postsecondary students are usually required to pay for vocational training. Cost differentials between public and private schools are notable. For noncollegiate postsecondary schools, average program charges were \$1,616 for private schools and only \$345 for public schools (chart 9.3 and table 9.3). Programs in Agriculture and Technical areas were most expensive in private schools, while Health and Technical programs were most expensive in public schools.

it would be particularly instructive to compare these charges with those of other provider institutions, especially the 2-year and 4-year institutions of higher education. However, such comparisons are not valid because they would presume comparability of programs from one institutional type to another that does not exist. Even similar program choices could result in distinct course patterns in different institutions. Noting the



Chart 9.1 Hours of Academic and Vocational Instruction, by High School Program, Race, and Sex



SOURCE: Table 9.1



Chart 9.2 Hours per Week of Class Time in Noncollegiate Postsecondary Schools, by Program Area

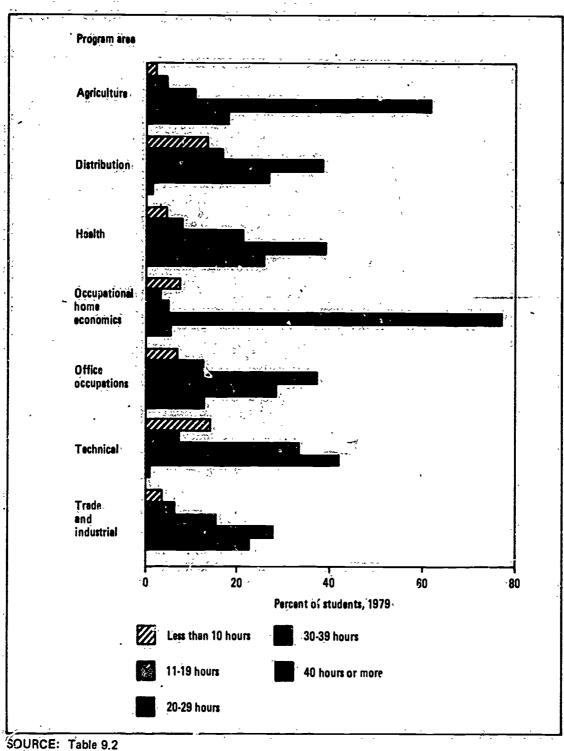
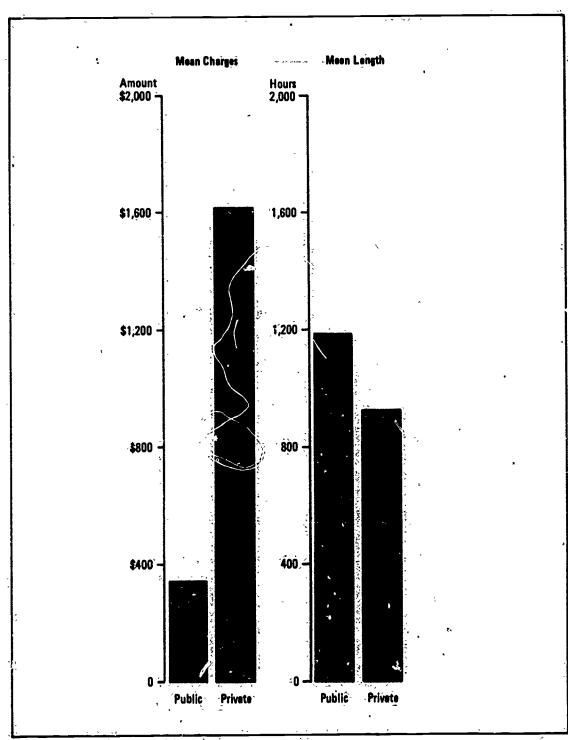
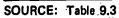




Chart 9.3 Charges and Length of Occupational Programs in Noncollegiate Schools







costs of tuition and fees for an academic year does indicate the range of collegiate costs, though. Two-year institutions averaged \$354 per year for public institutions in 1978-79, \$1,764 per year for private institutions. Four-year institutions had considerably higher average charges, \$614 for public and \$2,562 for private schools. Obviously, collegiate level instruction varies as widely in cost as do many noncollegiate programs. Private schools of all types have higher average charges than public schools.

Many circumstances may cause students to leave vocational programs prior to completion. When students in noncollegiate postsecondary schools were asked to identify potential problems, both economic and personal difficulties were cited. For students in public vocational/technical schools, economic problems were mentioned most frequently by students, while students in hospital schools cited personal problems (table 9.4). Among students in private schools, economic problems were cited more often than personal problems not only for students in vocational/technical schools but also for students in technical institutes and arts/design schools (table 9.5). Of the variety of personal problems confronted by students in technical institutes, arts/design, and hospital schools, difficulty of training was mentioned most frequently. Other problems were more specific to school type.

Local availability of vocational training is a problem for some students. The proportion of students in noncollegiate schools by type who had to move in order to enroll in their training program are related to the availability of certain types of schools. For example, only 9.5 percent of cosmetology/barber students had to move, whereas 39.6 percent of arts/design students needed to move (chart 9.4 and table 9.6). Hospital school students included relatively high proportions who needed to move in order to attend (36.8 percent), as did trade schools (32.4 percent).

In summary, when the various costs are considered, it appears that Health programs are most costly in terms of time, money, and relocation requirements. Office Occupation programs, in contrast, appear to be more accessible and available at lower costs than other programs.



Chart 9.4
Students Needing to Change Place of Residence to Enroll in Noncollegiate Postsecondary Schools

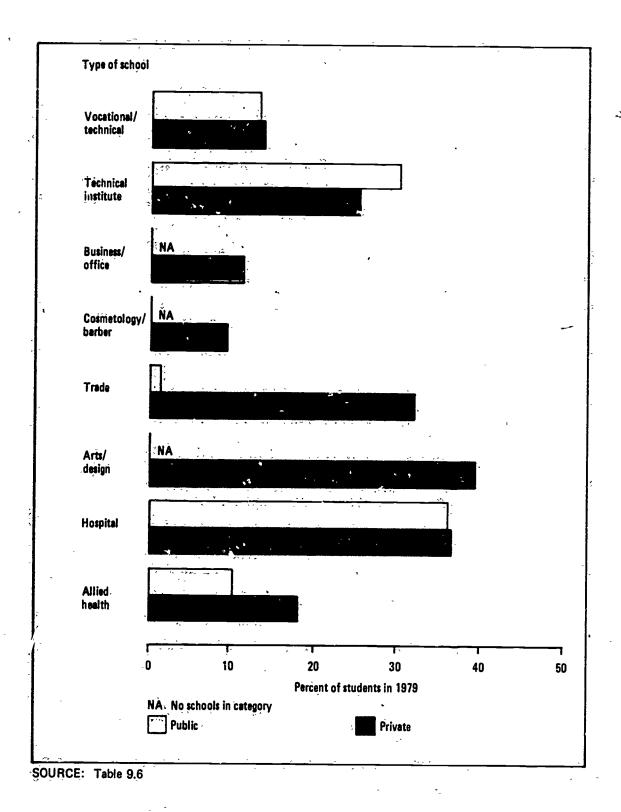




Table 9.1 Hours of instruction per week in academic and vocational areas for high school seniors, by high school program, race, and sex: 1972

program,	Hours of instruction					
race and sex	Academic	Vocational				
General						
White males	19.38	2.94				
White females	18.61	4.22				
Black males	18.19	2.81				
Black females	17.68	3.67				
Açademic		,				
White males	20.08	1.26				
White females	20.05	1.72				
Black males	20.51	1.40				
Black females	20.12	2.29				
Vocational						
White males	17.01	5.68				
White females	18.29	6⊴50				
Black males	16.03	5.01				
Black females	17.66	6.41				

SOURCE: David E. Wiley, Northwestern University, <u>High School Learning</u>, <u>Vocational Tracking</u>, and <u>What Then?</u>, prepared for United States Department of Education, National Center for Education Statistics, February 1980.



Table 9.2 Student time required for occupational programs in noncollegiate postsecondary schools, by program area: 1979

Time demands	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupations	Technical	Trade and industria
Hours per week of class time		<del></del>		Percentag	e distribution		<u>-</u>	
					)			
Total Less than 10 hours	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
10-19 hours	6.46	2.62	14.17	4.53	7.90	7.41	14.53	4.38
20-29 hours	9.61	5.04	17.34	8.17	3.67	12.89	7.90	7.86
30-39 hours	25.51	11.03	39.27	21.94	5.16	37.66	33.66	16.07
40 hours or more	36.11	62.69	27.40	39.21	77.43	28.80	42.70	38.47
Not reported	22.31	-18.63	1.82	26.15	5.85	13.21	1,21	33.22
or reported,	.01	0	0	-0	0	.02	0	0
Hours per week of studying								
Total	100.00	100.0Ò	100.00	100.00	200 00			
Less than 5 hours	33,55	24.62	37.25	100.00	100.00	100.00	100.00	100.00
5-9 hours	38.53	34.89	31.08	11.69	40.86	34.19	35,85	41.69
0 hours or more	27.91	40.48	31.67	37.33 50.98	44.03	40.34	41.32	37.60
Not reported	.01	0	0	30.96. 0	15.11 0	25.45 •02	22.83 0	20.71 0

NOTE: Details may not add to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.

Table 9.3

Mean charges, and mean length of programs in noncollegiate postsecondary schools with occupational programs, by program area: 1978

	Mean	charges	Mean length (Hours)		
Program area	Public	Private	Public	Private	
Ţotal	\$345	\$1,616	1,182	922	
Agriculture	326	2,514	1,115	888	
Distribution	310	926	999	327	
Health	454	1,664	1,214	1,977	
Occupational home economics	344	1,149	803	481	
Office occupations	<b>270</b> .	1,821	903	956	
Technical	586 _.	2,317	1,844	249	
Trade and industrial	315	1,155	1,214	1,026	

SOURCE: United States Department of Education, National Center for Education Statistics, Enrollments and Programs in Noncollegiate Postsecondary Schools, 1978, 1979.

Table 9.4
Potential problems that may cause students to leave programs in noncollegiate public postsecondary schools before completion, by type of school: 1979

Potential problems	Total	Vocational/ technical	Technical institute	Hospital	Allied Health					
·	**	Pèrcen	ıtağe distribu	tion.						
Total	100.0	100.0	100.0	100.0	100.0					
No problems	87.1	86.4	96.4	91.5	92.6					
Problems 1/	12.8	13.5	3.6	8.5	7.4					
Economic	8.2	8.9	<u>-</u>	3.1	٠_					
Conflict with work	2.0	2.2	-	_	_					
Cost of program	2.3	2.4	-	2.5	_					
Must get a job Difficulty with	3.5	3.8	-	.6	-					
financial aid	.4	•5	-	-	-					
Personal	4.9	4.8	3.6	5.1	7.0					
School too far away	• 7	.7	-	-	_					
Conflict with family	1.2	1.1	3.6	2.2	2.6					
Training too difficult	1.1	1.1	<b>=</b>	1.0	2.2					
Quality of training	.8	.8	=	•5	-					
Other personal	1.1	1.1	-	1.4	2.2					
Other problems	2.1	2.3	_	.3	.4					

^{1/}Table does not show problems for students in Business/Office, Cosmetology/Barber, Trade, or Arts/Design schools because there are not public schools in these categories.

NOTE: Details may not add because more than one reason could be selected.

SOURCE: United States Department of Education, National Center for Education Statistics, Enrollments and Programs in Noncollegiate Postsecondary Schools, 1978, 1979.



Table 9.5
Potential problems that may cause students to leave programs in noncollegiate private postsecondary schools before completion, by type of school: 1979

Potential problems	Total	Vocational/ technical	Technical institute	Business/ office	Cosmetology/ barber	Trade	Arts/ Design	Hospital	Allied Health
6 7	-	,	•	Percent	age distribution	ı	· · · · · · · · · · · · · · · · · · ·		*
Total	100.0	100.0	100.0	100.0	100.0	100 <b>.</b> 0	100.0	100.0	100.0
No problems	87.9	78.4	81.0	87.9	92.0	88;3	72.5	90.2	90.5
Problems	12.1	21.6	19.0	12.1	8.0	11.7	27,5	9.7	9.5
Economic	. 6.8	14.5	12.5	6.8	3.4	5.9	21.5	4.1	4.1
Conflict with work	1.4	4.9	1.4	1.7	,5	1.2	5.0	.6	.8
Cost of program	3.0	6,9	7.0	2, 2	1.8	2.7	12,3	2.2	2.2
Must get a job	1.8	2,7	1.9	2.5	1.0	i.6	3.1	.6	.7
Difficulty with financial aid	.4	0	2.2	.4	.1	.4	1.1	.1	.4
Personal	5.8	8.1	7.6	6.1	3 <b>.</b> 8	5.9	11.3	5.7	6.0
School too far away	.6	. 3	.4	.6.	•5	. 1.1	.9	.1	1.3
Conflict with family	1.0	0	.2	1-3	1.0	.5	1.8	.6	1.5
Training too difficult	1.9	0 1.7	3.6	2.2	•7	و.	3.0	3.5	1,0
Quality of training	1.2	2-8	2.9	.8	.4	2.4	3.8	1.0	.4
Other personal	1.1	<b>3.3</b>	.5	1.2	1.2	.9	1.8	.4	1.8
Other problems	2.1	2.9	3.4	1.5	2,0	3.1	4.7	1.7	.1

NOTE: Details may not add because more than one reason could be selected.

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.

Table 9.6
Students needing to move to enroll in noncollegiste postsecondary schools with occupational programs, by type and control of school:

Control	Total		<u> </u>	v					
of school	Total	Vocational/ Technical	Technical Institute	Business/ Office	Cosmetology/ Barber	Trade	Arts/ Design	Hospital	Allied
							Design	· .	Health
				Percent	age distribution	l			
•					PRIVATE				
Total Necessary to-move Not necessary	100.00 19.04	100.00 13.97	100.00 25.64	100.00 11.73:	100,00 9,46	100.00 32.41	100.00 39.63	100.00 36.79	100.00 18.15
to move Not reported	79.87 1.09	85;11 •91	73.84 52	87.54 .73	89.04 1.50	66.06 1.53	59.82 .55	61.61 1.61	81.04 .81
				ŕ	PUBLIC				
Total Wecessary to move Not necessary	100.00 14.61	100.00 13.55	100,00 31.14	*	* *	100.00 1.56	<b>☆</b> ★	100.00 36.50	100.00 10.07
to move lot reported No schools in category.	84.04 1.35	85.10 1.35	68 <b>.</b> 86 0	*	* *	98.44 0	*	61.81 1.69	81.81 2.12

NOTE: Details may not add to totals because of rounding.

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary unpublished tabulations.



## **Outcomes of Vocational Education**

Vocational education programs are intended to provide students with skills that will enable them to enter a related job upon completion of training. Thus an important aspect of determining vocational education outcomes is ascertaining students' career paths following training. Data on the education and labor force participation of persons who have received training provide information useful in identifying and assessing the benefits of vocational education.

Obtaining a comprehensive picture of occupational experiences as they relate to vocational education is more complicated than it might appear initially. Yet such a picture is not only informative but necessary. To ensure that programs are meeting societal needs, and that students are achieving their own goals in pursuing vocational education, both institutional and student perspectives should be considered, whenever possible, in examining outcomes. Clearly the range of education and employment options complicates the study of employment experiences relative to training. To consider the effects of vocational education offerings on the labor force, and to fairly evaluate the direct effectiveness of vocational programs, the transition from education to work must be examined in three phases: vocational enrollments, completion status, and placement status (chart 10.1).

Students enroll in vocational education courses for many reasons. Students may wish to acquire particular skills and use them to enter a chosen field. Other students may enroll in a vocational program on a strictly exploratory basis, particularly in the lower secondary grades. It is inappropriate to measure the impact of vocational education on these students in the same way that one would for students who have specific vocational objectives. The portion of total enrollments which should be examined in relation to completion or employment outcomes is that portion comprised of enrollments which are occupationally specific. This restriction reduces the base to be considered in completion and follow-up analyses.

Once an appropriate base of students is defined, the completion status of enrolled students becomes of interest. At this stage, the institutional and the student perspectives may not coincide. Since programs are designed to impart job entry skills, it might seem that program completion would be an important measure of program success. However, the objectives of vocational students may not require completion of programs. For example, a student may have most of the basic skills required to hold a given occupation, but need to obtain some specialized knowledge or skills. Such a student is likely to discontinue training as soon as he/she has obtained the needed skills. If one defines success of a program to be the fulfillment of students' training objectives, then the student just described may be considered as much a success of the program as may the program completer. Nevertheless, program completion remains a useful concept because it does provide information for those concerned with the institutional responsibilities for program planning and direction.

An examination of the completion status of 11th and 12th grade vocational education students in institutional programs shows that 45.5 percent of the students completed the program is which they were enrolled (tables 10.1 and 10.2 and chart 10.2). Another substantial share, 46.3 percent, remained in the program (it should be recalled that many programs are of 2 year's duration). Only 3.2 percent left after completing less than half the program.

Problems with establishing the completion status of postsecondary students make presentation of a similar discussion of postsecondary students inappropriate. The large number of students who stretch a 1 or 2 year program over a 5 to 10 year time span — the so-called "intermittent learners" — has made it almost



Chart-10.1 Transition from Education to Work

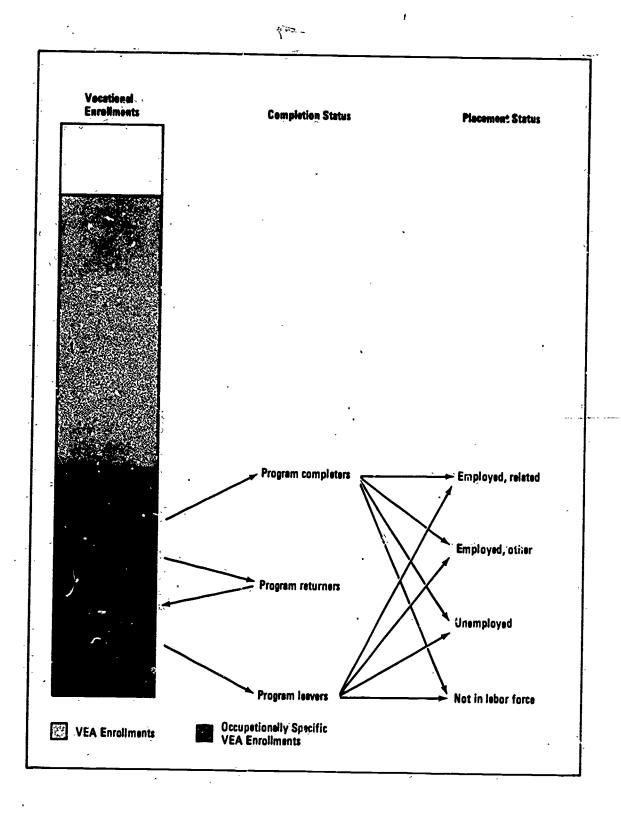
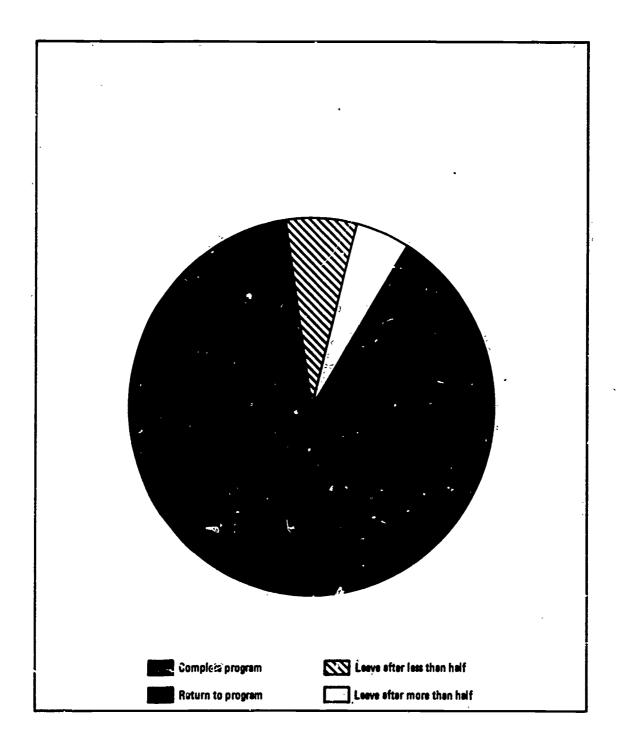




Chart 10.2 Completion Status of Eleventh and Twelfth Grade Vocational Education Students: 1978-79





impossible for postsecondary institutions and adult providers to determine when a student has truly left a program. Data on completers and leavers that were reported through VEDS are shown by level by State in tables 10.3 and 10.4, and by program area by State in tables 10.5 and 10.6. Nonetheless, the measurement problems encountered in securing these data should be recalled.

Data on student completions of programs are insufficient for evaluating the effectiveness of vocational education from either the institutional or the student perspectives. A student may leave a program before formally completing it to take a job related to his/her training. This student could be considered a more favorable outcome than one who completes a program but cannot find a job. Hence the placement status of vocational students offers information essential to those examining the effectiveness of vocational education and those concerned with occupational supply. From the discussion of completion status, it should be recalled that both students who complete and students who leave programs are possible candidates for entry into occupational fields.

At present, the only available data on vocational education students relative to job placement consider persons who completed vocational program requirements (with or without graduating) or who terminated their training prior to normal completion time to take full-time employment in the field for which they were training. The status of program leavers (dropouts) is unknown. The data that are available on this limited group of program completers as a consequence are suggestive only of placement patterns, and not of placement status for all vocational education students. Of students completing vocational program requirements, slightly more than half are available for immediate placement in the labor force. The proportion has dropped slightly since fiscal year 1972, from 58.9 to 55.2 in fiscal year 1978 (table 10.7). Of those completers not available for placement, a group comprising almost one quarter of all completers chose to continue their education at a higher level. Among those completers available for placement up to 12 months after finishing vocational programs, 66.4 percent were employed in a field related to their training, 25.4 percent employed in another field, and 8.2 percent were unemployed but seeking work (chart 10.3).

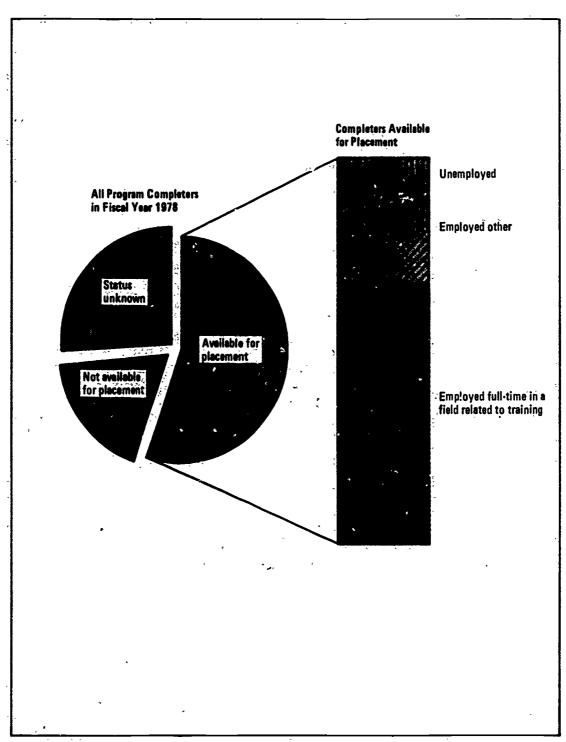
Higher proportions of adult and postsecondary students completing programs are available for placement immediately upon completion of vocational programs than are available at the secondary level due, in large part, to the numbers of secondary students who continue their training after graduating from high school. About two-thirds of students in adult programs (66.7 percent) are available for placement, compared with 51.2 percent from secondary programs who are available (table 10.8). Placement status also appears to vary by program area (table 10.9), but not by handicapped or disadvantaged status (table 10.10). The two program areas of Health and Trade and Industrial have the highest proportions of completers immediately available for placement, although the percentages (61.5 for Health and 61.8 for Trade and Industrial) are not as high as those for completers of adult programs (chart 10.4). Because there is a substantial subgroup whose placement status is unknown (between 20 and 35 percent for all program areas, except Agriculture where it is 14.1 percent), it is inappropriate to draw more definitive conclusions from the available placement information.

The experience of students enrolled in noncollegiate postsecondary schools with occupational programs show that education and work are combined for many students. Almost half of the students in these schools are already working (table 10.11). The proportion of those working ranges from 32.8 to 68.8 percent depending on the program area, with the lowest proportion occuring in the Home Economics area and the highest being in the Technical area (chart 10.5). Of those not working, a larger share declare that they are currently looking for a job, again suggesting that much of postsecondary training is combined with work experience.

Stated work plans of students in noncollegiate schools indicate that almost 10 percent of these students plan to continue at their present jobs after completing vocational education programs (table 10.12). Students in different programs differ markedly in plans to continue working in the same field; this finding suggests that



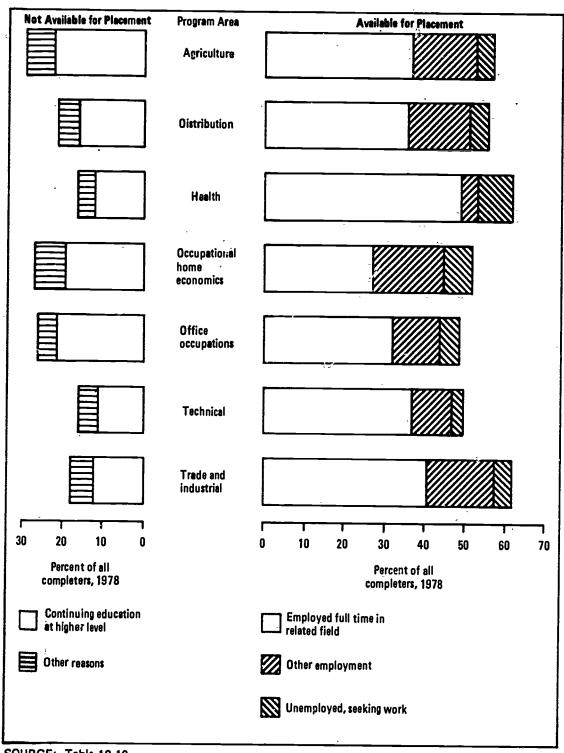
Chart 10.3 Placement Status of Program Completers



SOURCE: Table 10.7



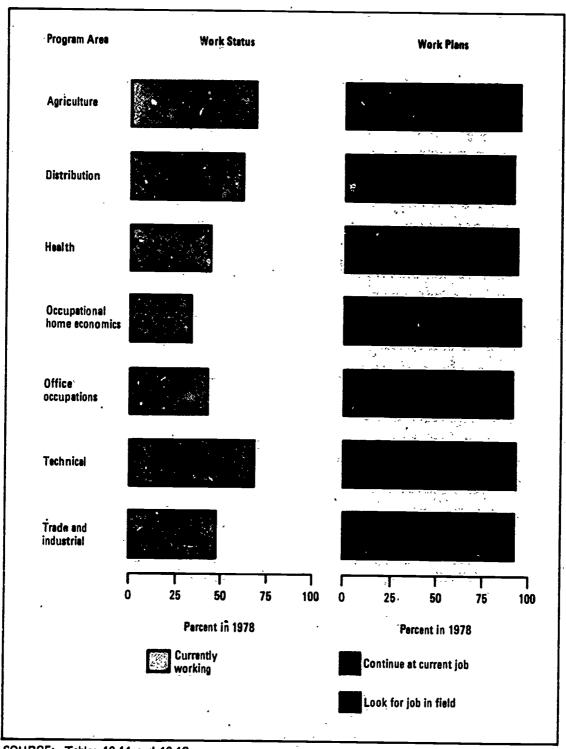
Chart 10.4 Placement Status of Program Completers, by Program Area



SOURCE: Table 10.10



Chart 10.5 Work Status and Plans of Students in Noncollegiate Postsecondary Schools



SOURCE: Tables 10.11 and 10.12



entry to some occupational areas may be contingent upon appropriate education. The overall average of 10 percent of students intending to continue their employment varies across program areas, with two areas showing considerable contrast. In Distribution, more than a fourth, 25.2 percent, plan to continue at a present job; in Health, fewer than five percent cite an intention to do so. However, more of the students in Health than in Distribution plan to go into the field in which they are training; the training in the Health area appears to supply the necessary credentials for entry level jobs.

## Progress through Education and the Labor Force

Information on job placement relative to program enrollment or completions is either not available or is not complete for all vocational education students. Nevertheless the cumulative occupational and training experience of young people offer considerable insight into the contribution of vocational education to career opportunities. Longitudinal data are available documenting activities, including work and education, of young people more than 4 years after high school; these data permit comparisons of post high school activities for groups defined by racial/ethnic background and sex as well as high school program.

Not surprisingly, there are major differences between males and females in some post high school activities. Higher percentages of males than females reported that they were on active duty in the military (table 10.14). Substantial proportions of females reported that they were homemakers (chart 10.6). A higher proportion of females who had been in vocational programs in high school identified themselves as homemakers than did females from academic programs (52.0 percent compared with 30.0 percent). Females who were in academic programs were more likely to be continuing their education and hence were postponing homemaking or childbearing.

In general, persons from high school vocational programs got jobs for pay, while those in academic courses were more likely to continue their education. Three years after high school, 75.5 percent of those who were in vocational programs were working (table 10.13); 4½ years after high school the proportion was 74.5, reflecting the impact of females leaving the labor force, at least temporarily. If males only are considered, there were 83.6 and 84.3 percent of vocational program graduates working for pay 3 and 4½ years after high school, respectively. In contrast, only 71.6 percent of males from high school academic programs were working for pay after 4½ years.

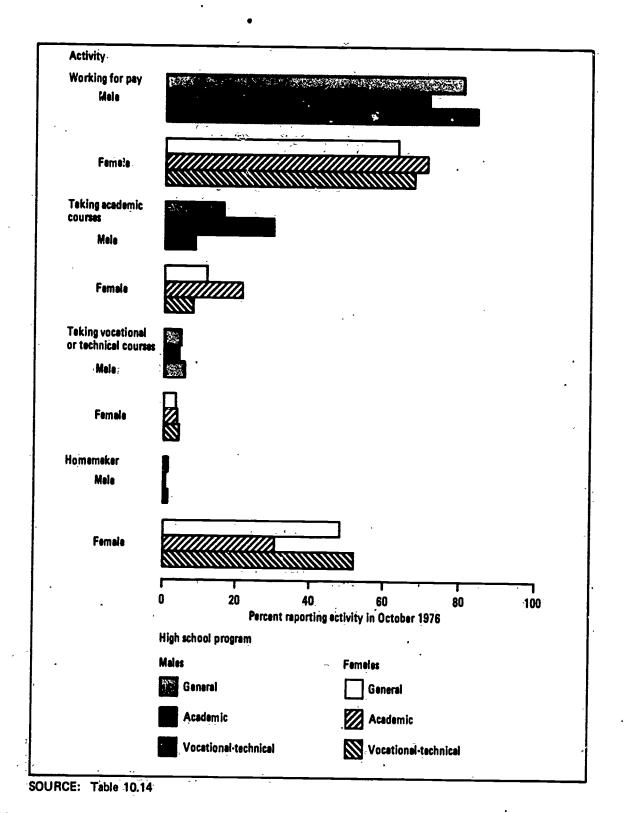
Among those persons who were in academic programs, the proportion of those working for pay increased and those enrolled in academic courses or job training decreased between the 3rd and 4th years after high school. This decrease occurred as students completed (at least ended) training to begin careers. While close to two-thirds, 62.6 percent, of this group were enrolled in an academic or vocational program after 3 years, only 39.3 percent were still enrolled almost 4½ years later. The proportion of this subgroup working for pay increased at the same time from 62.1 to 71.3 percent.

Similar proportions of the groups defined on the basis of high school program pursued vocational training 4½ years after graduation. The 4.7 percent, of those who had been in vocational programs in high school and were enrolled in vocational programs 4½ years later, is close to the enrollment proportion of 3.9 percent of those who had been in academic programs and the 3.9 percent vocational enrollment of those who had been in general programs.

Summaries of the educational attainment of young adults reflect the differences in work experience already noted. In many cases, those who did not proceed into jobs were enrolled in school or training. More than half of the young people who had been in an academic program (54.4 percent) had earned a certificate, license, diploma, or degree of some kind after 4½ years (table 10.15). Of this group, a higher proportion of females than males had earned such awards. Smaller proportions, 32.0 percent of students who had been in general programs and 27.7 percent of students in vocational programs, had earned a certificate, degree, or other award.



Chart 10.6 Activities of Young Adults Four and One Half Years After High School, by High School Program



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The high proportion of vocational students who entered the labor force has already been noted. However, labor force participation did not preclude continuation of education. More than 20 percent of students in vocational programs reported later that they had received at least some vocational training after high school; another portion of that group (over 18 percent) reported college enrollment (table 10.16). However, more than half of the students in vocational programs reported no further educational attendance or program completion. When high school vocational students are considered by subgroups based on sex and racial/ethnic characteristics, the proportions vary only slightly. For all of the subgroups, more than half did not pursue additional education in the first 4½ years after completing high school. The slight differences in educational attainment between males and females, and between blacks and whites, were exceeded by greater differences from one high school program area to another (chart 10.7).

The job status of young adults reflects the differences in occupational and educational patterns that have already been observed (table 10.17). After 4 years, more graduates from high school vocational programs (68.4 percent) were working than were graduates of general or academic programs (63.9 and 54.4 percent, respectively). The nature of employment also differed between vocational and academic groups. Higher proportions of those from high school vocational programs were working full-time while proportions working part-time were higher among those from academic programs. More males than females from each high school program were working full-time; females had higher proportions working part-time or not working. Of those not working, slightly more females than males reported health problems or physical handicaps as their reason for not working. Among the high school program groups; more young people from vocational programs (7.4 percent) than from academic programs (3.4 percent) cited health or physical problems (table 10.18).

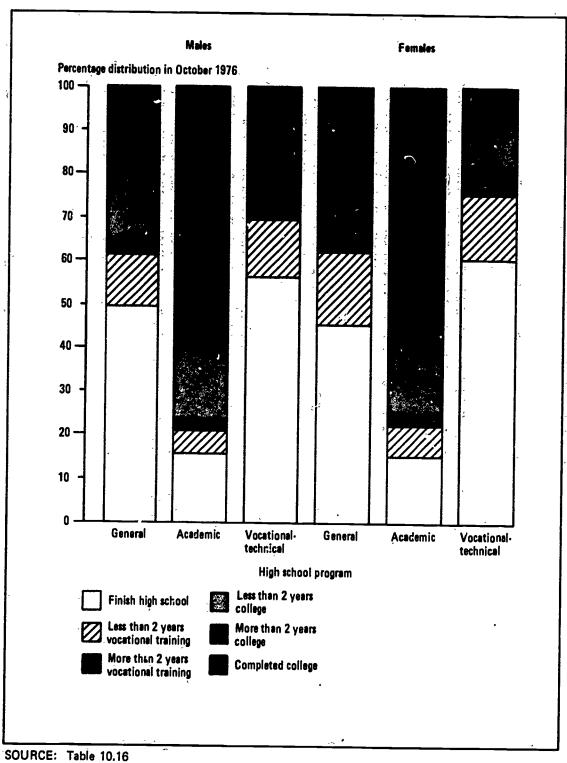
The occupational categories of employed young people reflect their training. The three categories of Clerical, Craftsman, and Operative account for a total of 63.3 percent of those from vocational programs who were working (table 10.19, chart 10.8). In comparison, only 38.6 percent of those from academic programs held jobs in those categories. Within occupational categories, maintenance of traditional single sex dominance is evident for persons from all program areas. Clerical occupations are dominated by females; of working vocational students, clerical occupations were reported by 59.4 percent of the females, only 7.8 percent of the males. Of working persons from academic programs, 37.7 percent of the females and 14.0 percent of the males were in clerical occupations. In contrast, male dominance is evident among those holding jobs as Craftsmen: of students from vocational programs, 31.1 percent of the males and only 1.6 percent of the females listed themselves as Craftsmen. Male dominance was just as striking for those from academic programs, with 14.5 percent of the males and 1.1 percent of the females holding jobs as Craftsmen. Sex biases were not as pronounced for person working in jobs classified as Professional. For those from a vocational program, 7.2 percent of working males and 7.0 percent of working females were holding professional jobs. For those from academic programs, 21.6 percent of working males and 32.0 percent of working females were in professional jobs.

White and black student groups showed few differences in types of jobs held. In contrast, groupings by high school program or sex appear to provide distinctive profiles (table 10.20). The continuing educational enrollment of large proportions of the academic program subgroup means that these data consider only a portion of the total high school class. Meaningful comparisons for this group would need to be based on later information, after more students have settled into jobs in a chosen field.

The availability of vocational education opportunities in particular program areas may explain postsecondary work and training patterns of students who are in vocational programs in high school. The future educational attainments of vocational students differ depending on the occupational program area in which they were working after high school. For most of the persons in vocational programs, high school education (which provided their vocational training) was sufficient for job entry. In fact, only among those later employed in health occupations did more than half receive any education beyond high school (table 10.21). Vocational training of less than 2 years duration was reported by 22.7 percent of this group choosing

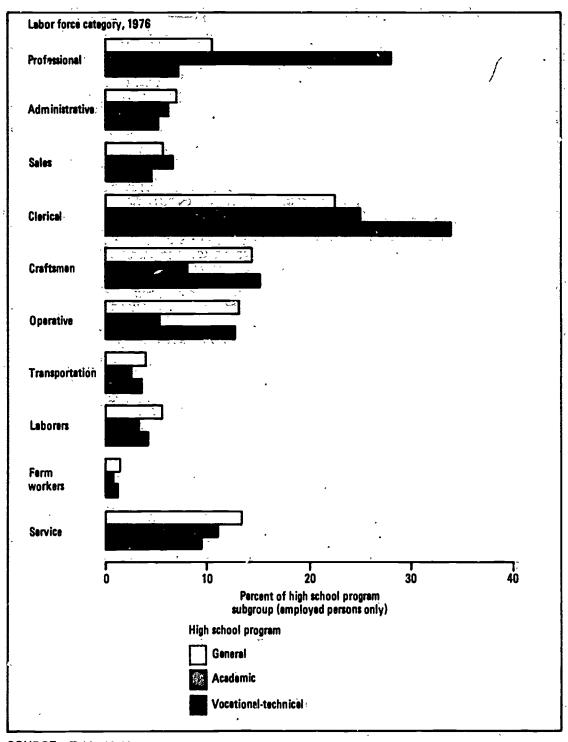


Chart 10.7 Highest Level of Education Received by Young Adults, by High School Program





Char 10.8
Jobs Held by Young Adults Four and One Half Years
After High School



SOURCE: Table 10.19



Health fields; another 7.2 percent received more than 2 years of vocational training, while 10.3 percent were enrolled in college for less than 2 years and 10.4 percent were enrolled for more than 2 years or graduated.

The greater amount of paining at the postsecondary level of those ir the least to the level of the a consequence of training opportunities. It may well be that general education, at least to the level of the high school graduate; is regarded as a necessary prerequisite for training in some program areas or programs. It has already been observed that training for some areas is focused at particular educational levels. Using the enrollment numbers presented earlier, it is possible to calculate the share of each program area enrollment that occurs at the secondary level. The percentages reported at the secondary level are, in order of magnitude: Home Economics (97.0 percent); Agriculture (91.5 percent); Trade and Industrial (78.0 percent); and Health (25.1 percent). In other words, training in health occupations is least likely to be available at the secondary level. Students interested in pursuing jobs in this area must seek additional vocational training after high school.

This information on availability of vocational instruction at the secondary level is closely related to the previous discussion of educational attainment. The educational attainments of those from vocational programs who are now employed may be examined in terms of students' earlier vocational program areas. The proportions of persons in each area who received no additional education, beginning with those who had the least additional training, are Home Economics (73.0 percent received no training past high school); Agriculture (71.9 percent); Trade and Industrial (70.4 percent); Office Occupations (62.4 percent); Distribution (55.8 percent); and Health (47.4 percent). This ranking of program areas precisely corresponds with the earlier ranking of availability of vocational instruction at the secondary level. Apparently, vocational students are seeking training in their chosen area and entering the labor market as soon as they have completed it. If that training is not available in high school, students seek it at the postsecondary level.

As these young adults looked retrospectively at their most recent education and training experience, high proportions of persons from all high school programs expressed satisfaction with their course curriculum. Much smaller proportions felt counseling or job placement services had been adequate. Over 60 percent of each high school program subgroup were satisfied with the course curriculum, compared with between 30 and 40 percent of persons in each subgroup who were satisfied with counseling or job placement (table 10.22). Differences across high school programs were minor. Females tended to express greater satisfaction than males, but there were few differences between blacks and whites.

In evaluating their current jobs, those from vocational programs were more likely to feel very satisfied or satisfied with their jobs as a whole than graduates of other programs. Vocational students also were more satisfied with their opportunities to use past training and education. Females were more pleased with their opportunities to use past training than were males; whites expressed greater satisfaction on this point than blacks (tables 10.23 and 10.24).

## The Composition of the Labor Force

Persons entering the labor market may choose from an extensive array of occupational fields and positions. The nature and extent of training required for entry into these various positions is contingent upon occupational characteristics, regulation, demand, and tradition. As a result, the labor force is itself diverse, even within occupational groups. The educational attainment patterns for occupational groups within the labor force suggest both the range of possible options and current education and training standards. The median school years completed for most occupational groups is near 12 (table 10.25). Exceptions include Professional and Technical workers, and Managers and Administrators, which have higher median attainments of 16.5 and 13.4 years, respectively. Private Household Workers have lower attainment (10.8 years). However, most occupational groups are composed of persons with a variety of educational attainments, both above and below high school completion. Only in the case of Clerical workers do a majority of the labor force (56.1 percent) report that their highest educational attainment was high school completion.



, " 1 p " " "

Concentrations of employees with at least 4 years of college education occur in two areas: almost two-thirds (64.5 percent) of those in Professional occupations and nearly one-third (30.4 percent) in Managerial occupations.

The composition of the labor force by educational attainment is not static. While substantial time is required for changes in attainment levels in an entry level group to affect the composition of the entire labor force, such changes do occur. The educational composition of the entry level employees does, furthermore, affect job availability and possibly the competition a beginning employee may encounter. The occupational groups entered by college graduates during two successive periods provide a useful example of such change. From 1962 to 1969, more than 89 percent of college graduates entered the two occupational groups with the highest median school years completed: Professional and Technical, and Managers and Administrators (table 10.26). However, in the following 7-year period, from 1969 to 1976, only 64.5 percent of college graduates entered these occupational groups. More than 10 percent of college graduates entered clerical occupations. While the proportions of all graduates entering other occupational groups were smaller, they represented in several instances substantial percentage increases in the share of college graduates entering that field. For instance, whereas from 1962 to 1969 only 0.5 percent of college graduates entered Service occupations, from 1969 to 1976, 4.5 percent entered Service occupations, more than nine times as large a share of the total.

The significance of these shifts in occupational groups entered by persons in this one source of new entrants is that the direction of the shifts is away from entrance into professional jobs and into jobs not held in substantial proportion by college graduates. While existing economic conditions obviously affect the opportunities and hence the choice available to new workers at any given time, there may be increased average academic attainment among persons entering many occupations.

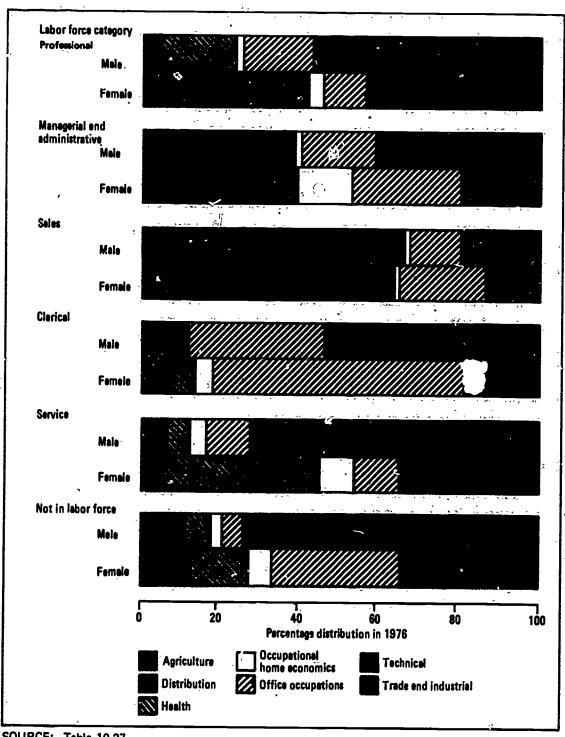
Many employees in each of the occupational groups have had vocational training. For most occupational groups, distribution of incumbents by field of training suggests that the relation of training to jobs is frequently complex. In only a few occupational groups do a majority of workers report that their training was in the same program area. One occupation where training was concentrated in a particular field is Sales workers: 61.8 percent of females in this occupation who reported vocational education training had studied in the area of Distribution (chart 10.9 and table 10.27). Those in Clerical Occupations received their training predominantly in the area of Office Occupations, although the proportions differed for males and females; 61.4 percent of females reporting training had received it in Office Occupations compared with only 31.8 percent of males. Most males in Craft, Transportation, and Operative occupations received their training in the Trade and Industrial area: 73.9, 67.1, and 63.0 percent, respectively. This information, incidentally, demonstrates some of the difficulties in following up vocational education students to ascertain whether they have entered the specific jobs for which they were trained.

The range of occupations available in the labor force is reflected in the occupational goals of high school seniors. Except for a few concentrated areas of interest, seniors displayed a diversity of goals when asked to state their occupational preferences, suggesting that they are aware of some of the variety that is possible. Students in academic programs were most interested in becoming professionals, with 65.8 percent citing examples of occupations in this category (table 10.28). In contrast, the occupational goal selected most frequently by vocational program students was clerical jobs, chosen by 35.6 percent of the group. Craftsman and Professional categories were next in order though even together (14.6 percent and 13.5 percent) they accounted for less of the total than the Clerical category.

Age and experience obviously have modifying effects on occupational goals. When the group of students who had been high school seniors was asked more than 4 years later what jobs they expected to fill at age 30 (as opposed to jobs they aspired to), the effects of more information about the labor force were apparent in their responses. Of young adults who had been in academic programs, 42.3 percent expected to be in



Chart 10.9 Field of Vocational School Training for Persons in Labor Force



SOURCE: Table 10.27



professional jobs when they were 30, compared with the 65.8 percent who had expressed hope for professional jobs earlier (table 10.29). Smaller proportions of vocational program students expected to be in clerical jobs than had earlier hoped for them (17.8 percent, down from 35.6 percent).

The changing of goals is characteristic of whites and blacks, males and females (table 10:50). Many factors are probably responsible: economic conditions, availability of information on job opportunities, and changes in personal preference. Changing job preference may well be a useful phenomenon; minimizing occupational isolation and stratification. Nevertheless, the constraints on opportunities that may be attributed to economic conditions or information available for career planning suggest that job information and vocational education planning are important in offering programs that both satisfy student preferences and most manpower needs. The need to relate manpower information to vocational education data is apparent.

TABLE 18.1 -- PROGNAM COMPLETERS BY LEYEL, AND TRANSFERS, BY INSTRUCTIONAL UNIGRAN

<del></del>	************				
(MOGRAM	TOTAL	BRADES	P087-	ADULT	7nan <b>o</b> f Ens
BRICULTURAL PRODUCTION	56,648	52,409	1,797	2,442	
BRICULTURAL SUPPLIES/SERVICES	0,162	0,053	1.023	436	4,130 237
BRICULTURAL MECHANICS BRICULTURAL PRODUCTS	27,376	26,338	475	563	1,1A7
MITICULTURE	2,204 24,317	207,1 272,15	165 1•444	264 1,350	79 1,476
MEMABLE MATURAL RESOURCES	5,000	4,330	<b>611</b>	145	
MESTRY MER AGRICULTURE	3, 051	3,264	431	156	411 102
MENTIBLING SENVICES.	6,877 2,662	6,646	134	,97	15
PAREL & ACCESSORIES	19,001	5,009	464 773	109 -236	195 355
PONOTIVE	3,043	2,756	112	195	92
MANCE 8 CREDIT DAISTRY	4,346	. 2,540	1,351	455	50
D. BISTRIGUTION	1,435 14,097	1,025 12,379	. 71	339	41
DO SERVICES	17,005	10,002	316 342	1,102 521	295 500
BRAL MERCHANDISE	75,004	70,696	3,110	2,070	
MARE, BUILDING MATERIALS, ETC.	1,707	1,731	45	11	3,020
ME FURMISHINGS PEL & LOGGING	940 2,270	761	150	1	15
WETRIAL MARKETING	3,762	1,312	726 1,000	332 500	172 62
WRANC,	2,959	1,032	150		
BONAL SERVICES .	2,340	2,253	150	√19 <b>9</b> 5	150 52
N ESTATE MEATION & TOURISM	27,174	11,605	4,515	9,274	50
HOPORTATION	2,706 3,102	2,334 2,216	316 693	\$2 273	72 124-
ER RETAIL TRADES	5,741	5,330			
ER BISTRIBUTIVE EDUCATION	12,724	11,093	315 1,391	*• 244	345 248
ITAL ASSISTING ITAL MYSIENE(ASSOCIATE DESNEE)	7,101	3,794	1,344	1,963	351
TAL LASORATORY TECHNOLOGY	2,130 . 934	201 222	2,011 570	17 134	130
ICAL LABORATORY ASSISTING	2,623	963	1,511	249	
ER MEDICAL LABORATORY TECHNOLOGY	1,070	100	907	71	146 145
SING(ASSOCIATE DEGNEE) CTICAL(VOCATIONAL)NURSING	\$5,107	2,740	18-375	794	1,517
SING ASSISTANCE TAIDE)	29,625 22,696	3,915 17,397	7.255 1,539	10,459 3,162	1,161 533
CR MURSING	3,000	2.072	735	1,059	
ABILITATION IOLOGIC TECHNOLOGY(X=RAY)	1,271	205	925	01	115 17
ITAL HEALTH TECHNOLOGY	2,715 2,245	510 539	1,900	217	173
ALATION THERAPY	2,725	653	1,611 1,404	<b>95</b> 700	140 164
ICAL ASSISTANT	6,447	4,975	729	743	293
MUMITY MEALTH AIDE	3,595	3,271	69	255	2 · · ·
ICAL EMERGENCY TECHNICIAN ER MEALTN OCCUPATIONS EDUCATION	7,262 17,311	3,509	950 2.500	2,723	1
E & GUIDANCE OF CHILDREN	34,735	12,740 30,701	2,500 2,500	2,063 1,445	712 1,437
THING MET., PRODUCTION, a SERVICES	12,690	11,432	349	897	551
D MET., PRODUCTION, & SERVICES E FURNA, EQUIPMENT, & BERVICES	35,135	32,719	606	1,010	1,952
TITUTIONAL O HOME NOTA O SUP.	2,040 2,017	1,070 2,520	325 25	645 272	• 95
er occup. Prep. For Monenaking	5, 024	4,700	663	441	257- 214
UNITING & CONPUTING OCCUPATIONS	103,240	00,870	11.356	3,014	2,971
PUTE 8 COMBOLE OPERATORS	10,326	9,100	1.507	653	270
ER DUSINESS BATA PROCESSING	12,427 20,112	7,559 16,515	4,150 2,019	710 1,570	156
ins, office machines, & sen. off.	184,039	117,425	3,752	3,662	6,670
MMATION, COMMUNICATION OCCUP.	15,271	10,711	502	Š0	100
ERIALS SUPPORT OCCUPATIONS SOUNCL, TRAINING, S RELATED	1,421	074	150	419	\$1
MORAPHIC, SECRETARIAL, & RELATED	5,010 135,044	4,043 100,022	513 10,000	454 0,616	120
AVISORY & ASMINISTRATIVE 467.	17,925	A, 000	.0,201	1,435	5,531 400
NE & RELATED DECUPATIONS	105,955	**,735	1,347	2,040	1,177
IR OFFICE OCCUPATIONS HITECTURAL TECHNOLOGY	12,397	10,905	932	400	150
DMDTIVE TECHNULOGY	4,113 ,1,194	1,127 233	2,657 873	329	100 240
IL TECHNOLOGY	2,070	\$17	1.666	363	219
TRICAL TECHNOLOGY	2,369	555	1,613	221	616
:TROMIC: TECHNOLOGY  ROMMENTAL=COMTROL TECHNOLOGY	12,041	4,355	-6,550	1,120	666
METRIAL TECHNOLUSY	927 992	. 191	605 603	61 27	93 27
MANICAL TECHNOLOGY	2,976	466	2,105	467	450



TABLE 18.1 -- PROGRAM COMPLETERS BY LEVEL, AND TRAMPAGERS, BY INSTRUCTIONAL PROGRAM:

		************			
PROGRAM	. TUTAL	GHADES	P087-	4. C. C. BC dus	TRANSFERI
**********************************	********	********	*******	***********	**********
JENTIFIC DATA PROCESSING	.2,491				
MMERCIAL PILOT TRAINING	1,277	1,519 1,026	766 232	164	40
ME & FIRE SAFETY TECHNOLOGY	2,233	1,160	1,155	<b>21</b>	
FICE SCIENCE AECHNOFORA	7,020	5,210	4,340	92 70	22
MER TECHNICAL EDUCATION	7,454	2,000	6,104	1,214	521
TER & MASTE HATER TECHNOLOGY	552	123	350	78	
A conditioning	11,699	6,390	2.030	3,279	63
PLIANCE REPAIR	3.405	2,630	292	503	279
DÝ S FENDÉR ŘEPAIR TO NECHANICA	24,913	16,897	1,450	2,566	1,57
	77,636	00,410	4,470	9:956	4,221
TUNUTIVE SPECIALIZATION	9,176	0,485	345	126	71
IATION OCCUPATIONS WHENCIAL ART OCCUPATIONS	5,426	2,748	765	1,673	210
MERCIAL PHOTOGRAPHY OCCUP.	6,637	0,633	1,641	363	409
MENTRY	4,095 34,447	4,096	419	343	44
	301777	31,076	1,500	5,860	5.055
icyriciyy Iowry	10,504	7,415	439	2,730	804
Moins à Pipepittins	3,746	7,072	251	1,425	607
HER CONSTRUCTION & MAINTENANCE	5,519 -23,005	2,327	349	' <b>2,043</b>	04
GTODIAL BERVICES -	·23,005 2,977	17,950 2,405	1,254 127	3,001	1,255
EGEL MECHANIC		-•	•	448	534
MTING DECUPATIONS	7,412	3, 334	1,909	5,169	241
ICTRICAL OCCUPATIONS	23,007 8,924	23,611	2,371	2,025	1,501
ECTRONICS OCCUPATIONS	25,562	5,702 20,906	622 2,165	2,600	429
MEMANONIP, BUPER., & MET. DEVEL.	3, 133	1,500	740	2,469 637	, 1,33°
PHIC ARTS OCCUPATIONS	22,576	** ***			-
BPRUMENT MAINTENANCE & REPAIR	674	24,017 426	1,457 169	1,102	1,336
RITIME DECUPATIONS	1,110		143	261 150	74
HINE SHOP	23,357	17,447	1,003	3,517	1,563
MINE: TOOL OCCUPATION	1,673	1,169	224	460	
ET METAL	3,332	2,200	116	1,016	106
DING & CUTTING	33,635	23,471	3,257	6,967	1,734
L 6 CIE MARING. ER METALMORRING OCCUPATIONS	1,006	345	267	354	.,,,
ATTABLA OCCUDATIONS	10,071	9,687	276	686	139
•	532	191	20	55	7
METOLOGY .	74,904	21,942	1,646	3,358	1,925
MER PERSONAL BERVICES MOTICS DECUPATIONS	674	625	126	123	10
TENAN TRAINING	1,100	1,106	31	41	4
ENFORCEMENT TRAINING	6,009 12,496	4,746 6,356	4,474 4,478	563 2,042	72
ISB BUSINESS COMMUNICATIONS		*****	4,040	6,446	234
MER PUBLIC SERVICE OCCUPATIONS MITTY FOOD OCCUPATIONS	4,139	3,063	545	511	46
RIGERATION	10,774 1,168	0,246 791	1,243	1,203	346
LL ENGINE REPAIR	8,314	6,236	167	226 17570	35
TIGNARY ENERGY SOURCES OCCUP.	554	405	20	150	436 33
TILE PRODUCTION & FABRICATION	5.911	5,004	***	-	
OL STERING	2,539	1,001	236 244	669 634	196
BHORKING OCCUPATIONS	10,575	7,445	236	474	133 149
ER TRADE & INDUSTRIAL OCCUPATIONS	30,164	25,145	1,674	3,345	639
ER PROGRAMS, GREATER THAN 12 OF YOTAL	\$1,071	44,195	3,793	3,063	0,300
ER PROGRAMS, LESS THAN 12 OF TOTAL	4,013	4,163	755	95	64
TOTAL .					
TUIMS '	1,754,471	1,344,070	204,557	165,044	79,534

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EQUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 10.2 -- LEAVERS BY PROGNAM LEVEL AND PERCENT UF CUMPLETIUM, NY INSTRUCTIONAL PHOGRAMS

	CUMPLETI	ED BUME THAN	O PENCENT				
PROGRAM	984DE8 11 8 12	· POST=	ADULT	GRADES	POST-	ADULT	
RÉCULTURAL PRODUCTION	7,719	519	Ž03	2,954	i 39	230	
AICULTURAL BUPPLIEB/BERVICES RICULTURAL MECHANICS	,663	506	43	360	90	27	
AICULTURAL PRODUCTS	2,747 130	•3 7	67 37	1,414 243	. 72	61 19	
MISCALINE	3,410	545	143	2,437.	250	342	
HENABLE NATURAL RESUURCES	368,	117	. 24	135	173	3	
RESTRY HER AGRICULTURE:	341	114	<b>'35</b> '	239	106	31	
VERTIBING SERVICES	455	34 21	17	`20 <b>T</b> 118	. 59	13	
PAREL STACCESSURIES	551	137	<b>ນ</b> ໍ້	505	46 218	36 229	
TOMOTIVE	193	41	34	213	16		
MANCE & CREDIT	129	559	24	111	1,231	45 -156.	
DO DISTRIBUTION	154 1,340	0 34	23	. 35 -	0	13	
DO SCRVICES	7921	130	. 56 35	566 785	11 71	76 116	
MERAL MERCHANDISE	-8/149	1.334					
NOWARE, BUILDING MATERIALS, ETC.	108	1,226	316	4,285	<b>*35</b>	615 7	
NE FURNISHINGS TEL 8-LOGGING	. 43	<b>●7</b>	•	42	- 75	23	
DUSTRIAL HARKETING	280	378 29	17 12:	75.	189	24	
WRANCE	· -			72	40	100	
ISONAL SERVICES	1336 185	13	3	26	24	13	
AL ESTATE	343		168	\$53 21	15°. 482	15 233	
MEATION &-TOURISM MEPORTATION	. 190	•0	4	101	33	1.	
- A Ne i NAE i - Au i	.351	160	13	.82	137	5	
MER RETAIL TRADES MER DISTRIBUTIVE EDUCATION	502-	•7		526	75	110	
ITAL ASSISTING	783 444	-358 99	25 143	1,507 -148	361 147	\$1	
ITAL: HYBIENE (ABBOCIATE DEGREE)	9	199	3	1	76	-3 <b>9</b> 0 0	
TAL LABORATORY TECHNOLOGY	11	33	•	13	132	70	
ICAL LABORATORY ASSISTING	127	324	714	64	. 594	36	
IER MEDICAL LABORATURY TUCHKOLOGY:	16 53	148	8		:315	18	
etical (voca 710mal ) xurbing	183	2,937 -429	135° 1,606	17 151	2,279 1,462	28 3,277	
BING ABBIBTANSERAIDE)	2,491	8	604	1,078	59	586	
ER NURSING.	177	133	191	30	30	184	
IABILITATION PIOLOGIC TECHNULOGY(X=RAY)	59	54	. 0	•	• 63	13	
ITAL HEALTH TECHNOLOGY	· 1	336 413	-3	1	315	29	
MLATION THERAPY	53	244	50	3	422 273	101	
ICAL ABBISTANT-	347	100	•2	195	234		
MUNITY HEALTH AIDE	175.	16	"3	1,75	234 36	20 <b>9</b>	
ICAL EMERGENCY TECHNICIAN ER MEALTH OCCUPATIONS EDUCATION	159	307	554	4	345	128	
E & GUIDANCE OF CHILDREN	1,875 2,855	530 1,088	273 256	1,205- 2,340	309 1,044	207 2,839.	
THING MET., PRODUCTION, & SERVICES	990	·	-	•	•	•	
MOT., PRODUCTION, & SERVICES	3,029	12 345	90 293	617 2,912.	~ 392 ~ 392	97 396	
E FURN', EQUIPMENT, & SERVICES TITUTIONAL & HOME MET, & SUP,	185	53.	48	86	50	44	
ER OCCUP. PREP. FOR HOHENAKING	231 357	49 62	24 33	265 373	, 45 277	14	
OUNTING & COMPUTING UCCUPATIONS	= :			** /	-	73	
PUTE'S CONSOLE OPERATORS	8,249 329	3,495 404	689 168	4,212	4,845	5,203	
SRAMMERS	845	1,093	168	785	2,059	105 319	
ER BUBINEBB DATA PROCESSING ING, OPPICE MACHINES, 8:8EM, OFF,	1,892 14,053	887	-310	515	562	788	
	,	1,601	454	9,816	2,190	2,367	
ORMATION, COMMUNICATION OCCUP. ERIALS SUPPORT OCCUPATIONS	589	5	5	857	67	25.	
SOMMEL, TRAINING, & RELATED	. 656	455	18	217. 54	9- 571	30 15	
HOGRAPHIC, SECRETARIAL, & RELATED	11,303	3,331	2,147	7,569-	5,426	4,842	
INVISORY & ADMINISTRATIVE HET.	186	2,896	155	105	2,446	359	
ING 6 RELATED OCCUPATIONS	9,625	195.	441	2,963	510	1,707	
IR-OFFICE OCCUPATIONS- ' HITECTURAL TECHNOLOGY'	1,495 42	1A#. 429	63 27	404	459	535	
DIGTIVE TECHNOLOGY.	-13	561	27 47	16 10	A44 654	, 28 <b>8</b> 46	
IL TECHNOLOGY	25	606	54	80	535	200	
CTRICAL -TECHNOLOGY	32	200	33/	174	768 /	47	
CTRONIC TECHNOL: JY	264	1,682	261	189	3,047	1,103	
IRONMENTAL→CUNTROL TECHNOLOGY UBTRIAL TECHNOLOGY	i	589 182	. 23 11	5	747 3 <b>9</b> 1	55 48	
		565					



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TABLE 18.2 -- LEAVERS SY PROGRAM LEVEL AND PERCENT OF COMPLETION, SY INSTRUCTIONAL PROGRAMS

		70-74CUNTI				
<del>1222*********************</del> *************	CUMPLET	ED HORE THAN!	SO PERCENT	CUMPLET		UN LEGG
PROGRAM	88ADE8 11 8 12	POST- SECUNDARY	ADULT (LI)NG-YERM)	SHADES 11 & 12	PUST- SECONDARY	ADULT (LONG-TERM)
SENTIFIC DATA PROCESSING	153	26	•	72	52	189
MERCIAL PILOT HAINING	•	20	10	•	21	41
NE O FIRE SAFETY TECHNOLOGY LICE SCIENCE TECHNOLOGY	110 136	291	26 57	•	501	224
ER TECHNICAL EDUCATION	130	1,011	136	26	1,364 1,861	585 . <b>62</b>
ÈR & MÀSTE MATER TECHNOLOGY	•2 .	137	19		224	133
COMPLITIONING	770	213	533	942	035	1,442
LIANCE REPAIR Y & FENDER REPAIR	405. 2,070	25 312	84 588	357 2,064	75. 567	337 1,420
D MECHANICO:	7,571	700.	1,683		1,067	4,052
ONOTIVE SPECIALIZATION	2,474	75	. •3 • .	539	53	79
ATION OCCUPATIONS	311	150	501	, 150	. 550	1,199
MERCIAL ARY DECUPATIONS MERCIAL PHOTOGRAPHY OCCUP.	730 523	. 410	•7 •9	443 117	724 220	299 46
PENTRY:	3,105	423	762	3,064	. 551	1,714
CTRICITY	. 553	121	30.	* *1*	224	714
OHRY.	057	60	- 593	919	279	710
MBING & PIPEPITTING	192	31	271	355	45	545
NER CONSTRUCTION & MAINTENANCE POSTAL SERVICES	2,52 <b>5</b> 367	150 20	392 85	2,497 202	253 •	951 900
SEL MECHANIC.	306	457	321	407	. 672	043
PTING OCCUPATIONS	-2, 106	725	593	1,901	1,032	1,687
CTRICAL OCCUPATIONS	669	. 65	401	798	550	1,405
CTRONICO OCCUPATIONO ENAMBNIP, BUPER,, 8 MGT. DEVEL.	2,507. 16	, 479 143	446 82	^ 1,469 -8	1,210 326	1,469
PHIC-ARTO OCCUPATIONS	2,565	200	202 -	1,610	361	542
TRUMENT-HAINTENANCE & REPAIR	50	7	50	47	•	75
STINE OCCUPATIONS	. 29		53	30	978	133
MINE TOOL OCCUPATION	1,043	400	760 73	-1,613 241	17	2,227 209
ET-METAL .	210	10	121	223	78	100
DIME-1 CUTTING	3,066	-034	1,692	2,696	1,236	4,494
L' & DIE HAKING	37	7.	144	51	· •	161
ĒR METĀLHDRKIMS DECUPATIONS ALLURGY DECUPATIONS	1,026 34	•	4	616 - 1	•	124
METOLOGÝ	3,404	255	619	1,657	878	1,549
ER PERSONAL SERVICES	118	16	21	27	26	34
ATICA OCCUPATIONA	235	!	16	51		71
ENAN TRAINING ENFORCEMENT TRAINING	255 449	327 1,557	21 21	26 150	65 673	74 68
ER PUBLIC BERVICE OCCUPATIONS	541	420	37	14	212	20
NTITY FOOD OCCUPATIONS	1,776	225	270	1,026	101	629
RIGERATION	75	34	26	.80	41	25
LL ENGINE REPAIR- TIONARY ENERGY-SOURCES DCCUP,	1 , 195 35	<b>43</b> 0	<b>254</b> (	70 <b>0</b> 116	•3	446
TILE PRODUCTION & PAGRICATION	473	110	75	502	••	244
OLOTER ING	594	49	140	102	41	449
DONORKING OCCUPATIONS	1,017	166	04 1,050	648	iai 202	127
MER TRADE & INDUSTRIAL OCCUPATIONS MER PROGRAMS, EREATER THAN 1% UP, TOTAL	2,000 3,009	259 891	1,050 674	1,750	292 2,153	1,612
ER PROGRAMO, LEGO THAN 12 OF TOTAL	542	164	o', à	35	1,216	301
TOTAL	120.422	48.401	38.078	98.424	63,575	44.140
TOTAL	150,455	45,403	25,075	46,026	63,575	68,360

SOURCES U.S. DEPARTMENT OF EDUCATION, "NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 18.3 -- PRUGRAŃ CUMPLETENS WY LEVEL, AND THAMSFERS, WY STATE UM UUTLYING AMEAS 1978-79

		COMPLETENS AT	***********			
STATE OR OUTLYING AREA	TOTAL	GRADES	PUST-	ADULT		
*******************		11812	aecondary	(LUNG-TERM)	TKANBFEHB	
ALABAHA	36,203	23,444	5,000			
ALASKA	11,307	3,477	6,452	6,879 1,378	2,347	
ARI ZONA	•	0	,,,,,	.,,,,	0	
arkangag Califurnia	14,253	11,017	195	3,041	785	
	379,673	379,673	•	0	0	
CULORADO	21,751	10,201	1,721	3,769	1 550	
COMMECTICUT	22,311	19,138	1,521	1,052	1,559	
DELAHARE District of Columbia	6,576	2,989	2,454	1,135	š	
FLORIDA	4,328 51,u99	3,917	237	174	433	
	21,444	33,888	6,859	10,352	•	
SEORGIA	8,098	•	7,774	324	846	
Mahaii Idaho	9,515	7,217	1,413	665	540	
ILL INOIS	4,389	2,406	1,030	145	- 0	
INDIANA	114,31 <b>6</b> 10,244	95,707 9,525	12,461	6,145	1,954	
,	,	4/323	•	719	•	
10wA	17,757	4,431	3,292	4,534	466	
KANSAS	20,666	1,565	5,310	5,705	700	•
(ENTUCKY LOUISIANA	19,292	16,453	434	2,405	1,061	
MINE	42,751	30,071		3,000	•	
	5,502	4,200	310	104	179	
MARYLAND	36,354	25,712	12,642		457	
MAGGACHUGETTO	47,629	36,110	5,039	5,580	<b>43</b> /	
1ICHIGAN 1INNESOTA	02,794	75,550	6,373	071	5,174	
11881881PP1	61,459	42,054	19,465	0	0	
-10010014×1	10,067	12,579	1,500	4,720	514	
11680UR1	51,299	37,472	4,319	A 20A	_	
ANGARGE	12,493	9, 349	2,140	9,508 1,184	0	
EVADA	2,441	2,251	179	111	38 -	
ven Hampshire ven Jersey	4,516	3,495	915	100	146	
	20,002	19,620	5,886	3,976	1,729	
ER MEXICO .	#,019	5,000	72	2.679	74.4	
En-YORK	•	0,000		2,0,7	360	
CRTH CAROLINA	39,241	39,241	š	š	377	
iorth Bakota Mio	6,839	4,598	1,141	1,100	- · · ·	
	121,998	99,428	7,100	15,398	40,228	*
MLAHOMA	17.903	12,004	2,743	2,576		
REBON	10/356	12,799	3,120	437	4,091	
ENNOYLVAKIA	74,675	63,177	6,466	5,032	4,929	
HOOK - ISLAHD	6,765	4,999	1,700	0	77.2	
OUTH CAROLINA	22,939	17,894	3, 332	2,513	2,279	
CUTH' DAROTA	6,159	4,770				
ENNEOSEE	26,694	10,420	2,469	1,389 6,957	100	
EXAB, = .	113,956	47,911	35,001	30,184	<b>834</b>	
TAM	17,216	12,611	4,000	7	ě	
Sunon1	3,373	3,205	•	160	344	
IRGINIA	34,496	39.493				
ASHINGTON	37,043	27;072 24,000	14,452 7,839	2,974	1,690	
EST VIRGINIA	14.488	- 10,094	1,642	5,204 1,752		
18004814	19,727	11,743	3,761	4,223	5,222 01	
AOHINE .	1,722	1,527	159	36	7	
TOTAL-U.S.	1,740,054	1,374,600	203,986	101,208	79,465	
MERSCAN SANDA					,	
ORTHERN MARIANAS	387 79	356 79	59	•		
UAM ,	255	195	0	.0	16	
NEWLO WICO	12,997	6,613	4.8	60 4,516	49	
RUST TERMITURY	699	<b>625</b>	74	7,310	i	
OUTLYING AREAS	14,417	9,270	571	4,576	•4	
.S. & OUTLYING AREA	1,750,471	1,384,070	204,557	105,844		

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 18.4 -- LEAVERS BY PROBRAM LEVEL AND PERCENT UP COMPLETEDM, BY STATE OR UNILYING ANEAS 1978-79

		ED HORE THAN	CUMPLETED SO PERCENT UR LEGS			
TATE OR GUTLYING AREA	GRADE0 11 6 12	, POST- SECONDARY	ADULT (LUNG=TERM)	GRADE0 11 & 12	PUOT- SECIMBARY	ADULT (LUMG-TEHM)
ABAMA	. 3,602	4,277	4,656	5,592		
ARA-	. ,,,,,	7/2//	7,057	3,376	4,010	9,015
izana Kamaa	4.434	.•				Ŏ
F1baunty	1,631 68,130	14	907	1,761	•,7	1,046
LORADO	104	2,467	2,011.	Ž,507	2,076	4,701
MMECTICUT LAMARE	794	405	100	1,274	3	520
STRICT OF COLUMBIA	191		<b>0</b>	73	. :	
ORIDA .	2,164	•	749	•	, .   •	ě
ioneia Maii	0	1,000	117	•	14,022	1,309
AHO	•••	3,238 463	12.	1,222	. 605	•
A INOIS IDIANA	9,733	5,577	1,795	3,451	3,436	1,424
· -	136	, •	••	917	•	163
MA MGAS	745 0,415	794 3,407	1,163 3,945	412 2,923	1,050	2,155
MTUCKY	3,677	34	450	7,105	142	4,051 3,134
WISIANA NIME	474	172	-203	579	-51	247
MYLAND					. 71	841
SOACHUGETTS	'183 544	377	1,030	497		:
CHISAN CHISAN	5,613	2,701	264	8,444	0,971	641
881861791	1,407	446	414	2,020	1,11	1,440
seoun :	•	٠	•	•	•	•
iðúa það Vaða	•••	734	83	1,031	1,003	150
u nampanere	360 367	53 66	52	441 757	115 115	39
# JERSEY	2,056	7	395	1,669	77	1,463
MEXICO	676	•-	1.23	1,575	150	2,951
M YORK MTH CAROLINA	-925	•	•	1,204	•	
MTH BAKOTA	704	363	249	. •	ě	
110	4,317	••1 ,	1,452	6,099	2,764	3,129
il Andma Kaon	2,010	75,344	357	1,972	0,046	005
MMEYLVANIA	2,417 3,407	3,145	543	15,906 5,441	1,359	2,093
OOC IOLAND	505	44	•	21	•	_ •
WTH CAROLINA	2,473	•	17	5,595	•	56
WTM DAKOTA MM <b>ESSE</b> E	1 <b>73</b> 3,078	2.301	•• •••	290	0	302
XAS	4,144	5,301	***	3,199 2,455	5,025	4,473
AM RHONT-	1,751	<b>62</b> Š	ġ	2,100	2,590	į
		•	•	514.	•	27
Meinia Bhineton	2,663 2,935	2,029	45	2,01	11	12,312
ST VIREINIA	2,136	2,199	331	2,067	9, 326	265
omine Sconsin	569 769	131	34	433	73	75
TOTAL U.S.	150,005	45,363	24,023.	97,970	63,320	60,129
CRICAN DAMDA	•	•	0			
RTHERN MARIANAO	•	•	ř	36		•
AN ERTO RICO	105		251	16	110	170
UST TERRETORY	367 55	23 17	•	i	136 1	53
OUTLYING AREAD	450	40	252	56	247	231
S. AND DUTLYING AREAS	150,455	45,403	25,075	40,026	63,575	40,360

SOURCES 4.8. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STAYLOTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 10.5 -- PROGRAM COMPLETERS BY INSTRUCTIONAL PROGRAM AND SY-STATE OF OUTLYING AREAS

					UCCUP.		•	TRADE		
	-	AGRI-	Distri-		HOME	UFFICE	TECH-		OTHER	
TATE OR OUTLYING AREA		CULTURE	- GUTION	HEALTH	ECUN	OCCUP.	HICAL	INDUS	HEC	
******		<del> </del>	********		••••••••		•••••		•••••••	•••••••
ABAMA	34,203	3,605	3,500	3,405	1,442	9,104	653	12,733	1,433	
ANA	11,307	144	934	769	205	4,026	- 940	2,435	1,274	
I BONA			•	, ,		1,11			• • • • • • • • • • • • • • • • • • • •	
MANBAB	14,253	3,119	1,656	1,253	448	3,930	7	3,032	i	
Lifornia	379,673	21,055	36,596	24,457	20,131	156,137	14,110	184,665	2,514	
LURADO	** ***		4							
MMECIICUT	21,751	656 319	173	1,993	1,206	0,721	992	4,659	3,521	
LANARE	22,311 6,570	. 401	1,140. 369	1,695	266 266	11,527	101	7,203	•	
STRICT OF COLUMBIA	4,320	5 36	395	344	2, 335	795	***	1,579		
ORIDA	51,099	2,151	5,100	5,944	2,657	14,325	1,357	11,522	0,037	
			••••	••••	••••					
OMEIA	0,090	46	115	1,342	555	1,252	476	3,105	1,540	
MAII	9,515	610	959	105	513	4,130	313	2,549	342	
AHO	4,309	500	453	369		1,206		1,449-		
LINGIS Diana	114,310	6,243	*,411	7,011	13,030	40,797	1,495	34,302	1,551	
<b>-</b>	10,244	3,475	102	134	245	1,106	•	4,768	•	
WA	17,757	4,417	1,040	2,439.	440	2,255	410	5,932		
NSAS	20,000	1,930	1,204	3,407	1,350	4,570	443	7,602	•	
NŤUČKY	19,292	5,020	2,107	2,076	1,055	-5,640.	701	5,617	i	
RIOIANA	42,751	4,135	3,844	1,549	2,260	24,640	125	6,393	405	
INE .	5,542	320	794	- 600	296	609	190	2,644	49	
RYLAKD	10 100								=·	
SSACHUSETTS	36,354 47,629	1,676	2,077	3,533	563	15,917	3,604	7,300	4,471	
CHIGAN	02,794	6,374	- 3,205 13,732	3,103 5,605	2,520 5,756	22,613 17,970	1,070	12,621 29,929	685	
NNESOTA	61,459	7,037	0,179	4,879	2,762	14,067	1,736	21,724	1,610	
881881PP1	10,007	2,964	3,250	7,020	660	2,673	405	7,970	i	•
	,	-,,,,,,	-,	***		2,0,3	40,	7,000	•	
980AU.	51,299	5,442	7,796	3,346	1,311	12,451	1,041	19,092	•	
Branka	12,693	1,945	1,500	779	134	4,541	•	3,641	48	
YABA	2,441	63	2	85	54	1,046	45	1,099	•	
N HAMPSHIRE	4,516	. 422	371	370	552	1,226	153	1,405	294	
M JEROEY	29,682	417	4,537	3,717	1,191	6,941	2,717	10,002	•	
OSEKAM W	6.019	774	1,270	492	547	2,406	113	2,107	102	
N YORK	•	***	*****	•		2,770		=,	146	
RTH CAROLINA	39,241	5,211	6,226	2,344	3, 071	6.735	š	15.632	ĭ	
Mth DAKUTA	6,039	1,100	469	1,032	200	1,031	315	1,732	ĭ	
10'	121,990	11,162	15,035	0,003	6,998	25,975	1,657	35,044	17,242	
			_				_		-	
LAHOMA	17,903	2,093	2,000	1,016	590	3,674	824	5,973	125	
EGON	16,356	1,295	1,090	1,399	353	6,721	571	4,949		
nnbylyanja 10 <b>06</b> 28land	74,675	2,935	4,638.	4,009	2,413	27,941	3,592	20,152	0,123	
W7M CAROLINA	6,765 22,939	207 2,212	397 1,921	529 1,009	352 964	3,417 5,657	392	1,391	•	
•/// •///	26,737	2,212	1,741	1,004	704	31031	•••	7,476	•	
W7M BAKDTA	6,159	856	1,045	710-	102	601	•	2,296	269	
MMESSEE	26,094	1,499-	3,050	2,102	1,533	6,916	441	10,019	24	
XAS	113,956	9,010	23.288	11,700	7,716	25,000	4,246	31,142	1,015	
AH -	17,210	500	1,911	1,102	762	4,000	264	7,506	206	
RMON7	3,373	200	56	301,	141	1,197	•	1,324	66	
REINIA BHINETON	34,490	5,115	5,707	2,784	1.376	9,717	1,063	11,327	327	
IOT VIRGINIA	37,043 14,000	4,005	5,345	2,776	894	14,166	897	70737	27	
SCOMBIN	19,727	2,576	1,231	1,000 1,536	520 653-	4,612 4,497	. 597 912	4,440 3,708	131 3,840	
OHING	1,722	302	200		34	451	24	391	3,070	
						_			•	
TOTAL U.S.	1,746,854	133,097	192,447	134,570	93,541	554,337	52,531	510,051	59,072	
			_					_		
ERICAN BANDA	. 367	15	3	•	•	297	7	57	•	
RTHERN MARIANAS	79	•		Ů	•	.10	•	67		
JAN JERTO RICO	255		15	2		50		163	. 19	
HOT TEMMITORY	12,997	507 94	1,362	740	508	3,613 27	595	5,614 307	101	
		74	•	•	v	=,*	•	347	141	
DUTLYING AREAS	14,417	624	1,319	757	508	4,197	512	6,200	212	
· · ·	- /••	'								
	•									
8. 8 OUTLYING AREAS		134,521	193,700	135,335	94,049	550,534	53,043	525,139	60,084	

SOURCES! U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VOCATIONAL EDUCATION DATA SYSTEM.



TABLE 18.6 -- PROGRAM LEAVERS, BY PRUGHAM AREA AND BY STATE OR DUTLYING AREA!

TATE OR OUTLYING AREA	TOTAL	AGRI- CULTURE	OIOTRI- OUTION	HEALTH	OCCUP. HOME ECUN	OFFICE OCCUP.	TECH- HICAL	TRADE 2 Indua	UTHER	
		********				*******			où nan a ù na na na ME P	
LABAMA "	32,032	1,500	1,477	3,000	830	6,196	1,067	17,090	710	
ARKA					•					
AIZOMA	i	Ĩ	i	ě	- <b>Š</b>	•	` i	ŏ	ĭ	
RKANBAS	6,436	1,234	355	345	78	1,370	ž	3,032	ě	
alipornia	66, 130	4,073	5,?73	5,922	2,316	29,030	767-	21,762	687	
OLORADO										
	15,626	242	725	1,005.	395	6,123	2,059	3,721	1,356	
DHMECTICUT ELAMARE	3,301	54	115	238	114	1,207	<b>07</b>	1,566	•	
ISTRICT OF COLUMBIA	264	27	24	. 21	17	100	. •	4 65.	•	
LORIBA	2,913	107	44	105	96	445		787		
30	.,,,,	•••	770	143	70	685	42	***	251	
EORGIA,	10,136	57	485	1,696	450	3,002	1,395	6.884	,	
AWAII	4,206	70	650	100	77.	1.311	131	1,456	- 0	
BAHĞ	3,231	. 422	365	100	64	1,195		765	56	
LLINOIS	25,610	1,054	1,000	2,639	2,667	0,009	1,523	7,950	572	
MOIAMA	2,007	301	••	55	157	41	0	1,500	•	
7ma								•		
DMA ANGA A	7,119	624	1,057	1,127	155	1,410	461	2,277	•	
	53,345	4, 305	1,305	3,649	.1,409-	4,127	365	9,122	•	
entucky Duiaiama	15,100	049	736	014	-427	5,142	147	*6,994	•	
VINE POTOTUM	2,40	140	220	•			. 0	4 . 4 3 2	.0	
	6,444	140	667	120	••	101	197	1,120	27	
ARYLAND	665	44	24	žó	11-	196		325	•2	
ABBACHUSETTB	1,957	216	147	259	75		175	1,046	36	
ECHIBAN	24,714	701	3,174	2,074	1,595	6,209	2,040	0,452	249	
ATORBUNI		0-	2,71	-,,,,	.,,,,,	-,,	2,040	-, -, -,	-7	
1801801PP1	7,053	915	651	401	174	1,123	405	3/364	ě	
	• -	-	-		• •					
ISSOURI			Ö	`0	•	•	•	•	*0	
EGRAGKA	4,700	574	692	500	19	1,190	0	2,001	10	
EVABA Ew mampanire	974	-35	24		44	414	36	412	٥٠	
	1,592	. 95	105	100	1,4	205	74-	648	40	
en: Jerbey	5,683	110	557	244	š is.	<b>033</b> -	110-	3,539	•	
EW NEXICO	5,510	263	736	242	171	2,048	267	1,763	76	
EN YORK	3/3.4	203	7.30	~~~	171	2,040	207	.,,,,,		
DATH CAROLINA	2,209.	401	176	• 0	169	101	9	1,192	0,	
ORTH BANDTA	1.356	177	166	•1	39	204	•	1/172	.07 9	
110	19,362	1 - 153	1,263	1,073	1,362	3,237	1,210	5,329	3,927	
•							.,	4,000		
KLAHOMA	17,414	611	1,154	1,990	935	5,296	4,247	5,150	23	
REBON	10,403	1,003	1,140	245	600	4,442	244	5,456	Ö	
EMMOYLVANIA	167,100	701.	1,329	1,175	837	3,973	705	5,564	1,544	
HODE ISLAND	347	4	20	53	€.	111	14	161	•	
DUTH CAROLINA	0,141	719	063	272	276	3,521	•	2,490	•	
MITH GARGEA					•-		_			
Duth Oakot <u>a</u> Emm <b>esse</b> k	510	137	57	105	24	64	0	336	90	
CHAS	10,704	471	786	1,427	1,051	5,520	2,624-	0,013	941	
ram .	6,500 7,362	755 146	1,245	191	740 274	672		2,790		
ERMONS	1,010	140. 114	656	276	45	2,761	74	3,103	45	
<del></del>	.,,,,		•	70	76	707	•	301	16	
ere in	5,786	512	455	314	342	1,009	•	2,425	49	
LEMING TON	10,076	667	1,159	• 437	1,076	3,750	1,142	0,701	114	
EST VIRSINIA	12,421	344	619	1,245	454	4,016	1,540	2,465	902	
Facone IN	1,002	145	55	•	79	112	0	151	460	
TONING	1,760	340	579	235	0	. 410	62	148	<b>'</b> •	
TOTAL U.O.	441,610	20,347	33,450	31,214	-21,074	127,935	53,650	160,579	14,009	
MOTEAN AAMIA				_	_	_	_	_	_	
MERICAN BANDA		•	•		0		0	.0	0	
JRTHERM HARZAMAS Jan	36 333	3	2	, o	•	.16	0	17	.0	
MRTO RICO	333 834	12	306	45	0	120	107	43 A4	<b>5</b>	
RUST TERRITORY	73	10	300	43		553	159		. •	
	,,		•	•	•	•	•	55	•	
DUTLYING AREAS	1,276	26	311	45		361	200	254	11	
	-,		<b></b>	7.	•	<del></del> -			••	
					21,074					
O DUTLYING AREAS	442,894	20,415								

SOURCES U.S. DEPARTMENT OF EDUCATION, NATIONAL CENTER FOR EDUCATION STATISTICS, VUCATIONAL EDUCATION DATA SYSTEM.



Table 10.7
Placement status of program completers : Fiscal years 1972, 1974, 1976, 1978

•	FY 1972		FY 1974		FY 1976		FY 1978	
Placement status	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup
Completed program requirements 1/	100.0		100.0		100.0		100.0	
Available for placement	58.9	100.0	. 58.5	100.0	55.1	100.0	55.2	100.0
Employed full-time in a field related to training Other employment Unemployed, but seeking work	44.8 9.3 4.8	76.1 15.8 8.1	38 · 2 14 · 6 5 · 7	65.4 24,9 9.7	35.5- 13.9 5.7	64.4 25.3 10.3	36.7 14.0 4.5	66.4 25.4 8.2
Not available for placement	27.8	100.0	24.7	100.0	24,,8	100.0	22.1	100.0
Continuing education at higher level: Other reasons	19.7 8.1	70.9 29.1	16.7 8.0	67.6 32.4	17.7 7.1	71.5 28.5	16.8 5.3	76.1 23.9
Status unknown	13.3		16.8		20.1		22.7	

Program completers include students who complete the vocational program requirements (with or without graduating) or who terminated their training prior to normal completion time in order to take full-time employment in the field for which they were training. Placement status refers to labor force status as of February of students who completed their training during the preceding fiscal year.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Reports, 1972-78.

Table 10.8 Placement status of program completers, 1/ by level of program: Fiscal year 1978

		ograms	Seco	ndary	Postse	condary	Adult (De	eparatory)
Placement status	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup
Completed program requirements 1/	100.0	•	100.0		100.0		100.0	-
Available for placement	55.2	100.0	51,2	100.0	54.0	100.0	66.7	100.0
Employed full-time in a field related to training Other employment Unemployed, but seeking work	36.7 14.0 4.5	66 4 25.4 8.2	30.4 16.0 4.8	59.3 31.4 9,3	40.3 10.6 . 3.1	74 \ 7 19•7 5•6	49.0 12.4 5.3	73.5 18.5 8.0
Not available for placement	22.1	100.0	31.5	100.0	11.1	100.0	9.5	100.0
Continuing education at higher level Other reasons	16.8 5.3	76.1 23.9	25.4 6.1	80.7 19.3	6.7 4.4	60.7 39.3	5.3 4.2	55.5 44.5
Status unknown	22.7	,	17.3		34.9	22.7	23.8	44.5

^{1/}Program completers include students who completed the vocational program requirements (with cr without graduating) or who terminated their training prior to normal completion time in order to take full-time employment in the field for which they were training. Placement status refers to labor force status as of February 1978 of students who completed their training during FY 1977.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.



Table 10.9 Placement status of program completers 1/, by instructional program eres: Fiscal year 1978

	All pr	ograms .	Agric	ulture	Distri	bution	Hea	1+h
Placement status	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of aubgroup	Percent of total	Percent of subgroup
completed program requirements 1/	100.0	•	100.0		100.0	<u>-</u> - <u>'</u>	100.0	<del></del>
Available for placement	55.2	100.0	56.5	100.0	55,1	100.0	61.5	100.0
Employed full-time in a field related to training Other employment Unemployed, but sacking work	36.7 14.0 4.5	66.4 25.4 8.2	36.2 16.6 3.7	64.0 29.4 6.6	35.6 15.2 4.3	64.6 27.6 7.8	48.8 9.0 3.7	79.4 14.6 6.0
Not available for placement	22.1	100.0	29.4	100.0	21.6	100.0	16.4	100.0
Continuing education at higher level Other reasons	16.8 5.3	76.1 23.9	22.7 6.7	77.2 22.8	16.2 5.4	75.1 24.9	12.1 4.3	74.0 26.0
Status unknown	22.7		14.1		23.3		22. i	

Program completers include students who completed the vocational program requirements (with or without graduating) or who terminated their training prior to normal complation time in order to take full-time amployment in the field for which they were training. Placement status refers to labor force status as of February 1978 of students who completed their training during FY 1977.

SOURCE: U.S. Department of Health, Education, and Welfara, Division of Vocational and Technical Education, Annual Report, 1978.

Table 10.9
Placement status of program completers , by instructional program area: Fiscal-year 1978 -- continued

		economics	Office occupations		Technical		Trade and	indust !al
lacement status	Percent of total	Percent of subgroup	Parcent of total	Percent of aubgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup
capleted program requirements 1/	100.0	<del></del>	100.0		100.0	•	100.0	
Available for placement	51.6	100.0	48.4	-100.0	49.5	100.0-	61.8	
Employed full-time in a field					4,000	100.0	01.9	100.0
related to training Other employment Unemployed, but seeking work	26.7 17.6 7.3	51.7 34.2 14.1	31.6 12.2 4.6	65.3 25.2 9.5	36.5 10.2 2.8	73.7 20.6 5.7	40.8 16.3 4.7	66.0 26.5 7.5
Not available for placement	27.1	100.0	26.2	100.0	16.2	100.0	18.0	100.0
Continuing education at higher level Other reasons	19.7 7.4	72.6 27.4	21.6 4.6	82.4 17.6	11.1 5.1	68.5 31.5	12.3	68.4 31.6
Status unknown	21.3		25.4		34.3		20.2	

Program complaters include students who completed the vocational program requirements (with or without graduating) or who terminated their training prior to normal completion time in order to take full-time employment in the field for which they were training. Placement status refers to labor force status as of February 1978 of students who completed their training during FY 1977.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1973.

Table 10.10 Placement status of program completers  $\frac{1}{2}$ , by special needs category: Fiscal year 1978

	A11	students	Disa	dvantaged	Hand	icapped
Placement status	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup	Percent of total	Percent of subgroup
Completed program requirements 1/	100.0		100.0		100.0	
Available for placement	.55.2	100.0	55.7	100.0	56.2	100.0
Employed full-time in a field		,				
related to training	36.7	66.4	36.5	65.5	35.9	63.9
Other employment	14.0	25.4	<b>13.1</b> ,	23.5	13.2	23.4
Unemployed, but seeking work	4.5	8.2	6.1	11.0	7.1	12.7
Not available for placement	22.1	100.0	22.0	100.0	22.1	100.0
Continuing éducation at higher level	16.8	<b>76.</b> 1	15 <b>.5</b>	70.5	14.6	66.3
Other reasons	5.3	23.9	6.5	29.5	7.5	33.7
Status unknown	22.7		22.3		21.7	

Program completers include students who completed the vocational program requirements (with or without graduating) or who terminated their training prior to normal completion time in order to take full-time employment in the field for which they were training. Placement status refers to labor force status as of February 1978 of students who completed their training during FY 1977.

SOURCE: U.S. Department of Health, Education, and Welfare, Division of Vocational and Technical Education, Annual Report, 1978.

Table 10.11

Work status of students in noncollegiate postsecondary schools with occupational programs, by area of program: 1979

Work	-	*.		Area of	current program			
status	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupations	Technical	Trade and industrial
				Percentag	ge distribution			
Currently working	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Total Job for pay Unpaid family worker Self employed Not Currently working	47.89 44.78 1.34 1.77	67.52 47.13 17.88 2.52	61.25 58.63 0 2.62	44.65 42.50 1.59	32.84 32.84 0 0	42.54 40.96 1.00 .57	68.81 62.52 1.41 4.87	47.59 43.80 1.38 2.42
Total Looking for job Not looking for job Hours per week for those working	52.11 24.00 28,11	32.48 1.38	38.75 24.60 14.16	55.35 17.68 37.67	67.16 30.85 36.32	57.46 28.90 28.56	31.19 18.78 12.41	52.41 24.38 28.03
Total Less than 15 hours 15-34 hours 35 hours or more	47.89 8.23 19,85 19.81	67.52 13.09 21.30 33.13	61.25 8.63 21.73 30.89	44.65 16.89 19.43 8.33	32.84 2.80 16.36 13.68	42.54 6.32 21.32 14.89	68.81 6.35 32.03 30.43	47.59 6.29 16.21 25.09

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.



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Table 10.12
Work plans of students in noncollegiate postsecondary schools with occupational programs: 1979

		*		Area of	current program	<u> </u>		
Plans	Total	Agriculture	Distri- bution	Health	Occupational home economics	Office occupations	Technical	Trade
						Professor Na		
				Percentag	ge distribution		•	
Total	100,00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Continue at current job	9.60	18,98	25.16	4.95	7.59	7.50	13,16	11.25
look for job in field	82.67	75.93	66.29	89.18	88.12	83.29	80.40	81.00
ook for job not in field	1.66	.86	1.83	•83	.12	1.97	1.03	1.95
Inter military service	.33	0	0	•50	0	.18	.10	.44
on't plan to work	1.30	.76	.84	1.32	•75	1.69	1.27	1.05
on taknow	4.42	3.47	5.89	3.10	3.42	5.36	4.04	4.32
ther	.02	0	0	.12	0	0	0	0

SOURCE: United States Department of Education, National Center for Education Statistics, Survey of Students in Noncollegiate Postsecondary Schools, unpublished tabulations.



Table 10.13
Activities of young adults three years after high school, by high school program, sex, and race:

High school	n			7				
High school program, sex and race	Working for pay	Graduate school	Academic course	Activity Vocational- technical	Active duty	Home- maker	Temp.	Other
		~ *	- *, -	Percent		<del></del>		<del></del> ;
Total ·				Lercent			•	
General Academic Vocational-technical	70.80 62.08 75.46	1.28 3.50 .77	20.71 55.40 9.31	3.86 3.71 4.22	6.16 3.73 5.16	20.91 11.57 27.41	7.85 5.29 8.11	3.38 2.49 3.32
Male	*							
General Academic Vocational-technical Female	77.37 62.07 83.55	.89 3.18 .66	21.89 57.55 10.38	4.59 3.93 5.29	10.37 6.36 10.90	.90 .43 .99	8.39 5.29 8.23	2.69 2.33 3.32
General Academic Vocational-technical	63.61 62.10 69.62	1.68 3.81 .86	19.52 53.05 8.51	3.07 3.43 3.48	1.30 .76 .93	43.00 24.00 46.79	7.30 5.33 7.96	4.15 2.65 3.24
Black General								
Academic Vocational-technical	68.94 60.16 68.37	1.88 2.92 1.40	21.63 47.73 13.26	5.32 5.55 7.08	9.40 6.19 5.92	18.91 11.40 20.45	12.09 11.86 16.05	3.67 2.41 3.32
White eneral		~						
cademic ocational-technical	70.88 61.93 76.58	1.25 3.46 .63	20.68 56.32 8.71	3.59 3.45 3.99	5.82 3.46 5.03	21.32 11.72 28.58	7.22 4.78 6.83	3.39 2.51 3.37

TTE: Details do not add to 100.0 because respondents could identify more than one activity.

URCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study 200

Table 10.14
Activities of young adults four and one-half years after high school, by high school program, sex, and race: October 1976

High school program, sex and race	Working for pay	Graduate school	Academic course	Vocational- technical	Active duty	Home- maker	Temp. not work.	Othe
				Percent				
Total								
General	72.42	1.89	13.41	3.93	4.20	23.50	9.04	4.56
Academic	71.32	9.13	26.24	3.94	3.60	14.62	9.19	4.22
Vocational-technical	74.54	•98	7.46	4.66	3.63	30.52	8.84	3.89
Male								
General	80.69	1.73	15.38	4.46	7.00	1 00	0.00	, -
Academic	71.58	10.16	29.79	4.28	7.09	1.28	8.86	4.5
Vocational-technical	84.27	1.02	7.28	<b>5.69</b>	5.98 7.39	.77 1.13	8.88 9.70	4.3: 3.7:
Female								
General	63.40	2.09	11.26	3.35	1.04	48.09	8.99	4.55
Academic .	71.15	7.93	22.35	3.51	.96	30.07	9.44	4.08
Vocational-technical	67.63	.97	7.68	3.97°,	.86	51.98	8.12	3.92
					*	•		
Black								
General	68.18	2,18	13.62	5.47	6.00	20.39	16.35	4.0
Academic	67.41	7.78	26.06	3.86	6.38	12.84	13.64	3.5
Vocational-technical	71.25	1.36	11.48	5.38	5.18	21.28	14.31	3.96
White	ė							
General	73.31	1.90	13.09	3.66	4.08	23.99	7.82	4.77
Academic	71.91	9.36	25.82	3.85	3.33	14.86	8.69	4.19
Vocational-technical	75.29	.97	6.83	4.66	3.33	32.14	· 7.76	4.0

NOTE: Details do not add to 100.0 because respondents could identify more than one activity.

OURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, NLS, Tabular Summary of the hird Follow-up Questionnaire Data, March 1978.

Table 10.15
Percent of young adults earning any certificate, license, diploma, or degree of any kind in the four years since leaving high school, by high school program and sex: October 1976

High school program and sex	Certificate or other award earned	No certificate or other award
Total		
General	31.98	60.00
Academic	52.38	68.02
Vocational-technical	27.71	47.62 72.29
Male		•
General	32.54	67.46
Academic	49.92	67.46
Vocational-technical	32.59	50.08 67.41
Female	×	
General ·	31.32	60 60
Academic .	55.22	68.68 44.70
Vocational-technical	24.10	44.78 75.90

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-up Questionnaire Data, March 1978.



Table 10.16
Highest level of education of young adults four and one-half years out of high school, by high school program, sex, and race: October 1976

High school program, sex and race	Total	Finish high school	Less than 2-year vocational	More than 2-year vocational	Less than 2-year college	More than 2-year college	Completed college
					Percentage di	stribution	
Total							
General	100.0	48.99	. 12.27	3.52	14.72	13.71	6.80
Academic	100.0	15.59	5.84	2.91	15.28	29.81	30.56
Vocational	100.0	58,51	15.59	6.65	11.08	6.45	1.71
Male							
General	100.0	49.82	10.47	4.39	14.96	15.10	5.26
Academic	100.0	15.58	5.10	2.91	16.03	32.15	28,25
Vocational	100.0	56.16	13.62	10.01	11.53	7.20	1.47
<b>Pemale</b>	k.		•				
General	100∙0	47.89	14.27	2.57	14.57	12.29	8.42
Academic	100.0	15 <b>.5</b> 3	6.69	2.93	14.40	27.27	33.18
Vocational	100.0	60.23	17.06	4.20	10.80	5.80	? ,90
Black							
General	100.0	45.79	16.87	3.16	14.15	13.65	6•38
Academic	100.0	21.46	10.27	2.73	16.64	27.44	21.45
Vocational.	100.0	53.19	18.66	3.32	13.11	9.03	2.69
White							
General .	100.0	48.65	11.92	3.55	14.91	13.79	7.18
Academic	100.0	14.83	5.48	2.93	15.06	29.75	31.95
Vocational	100.0	58.46	15.46	7.54	10.91	5.92	1.90

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-up Questionnaire Data, March 1978.

Table 10.17 Job status of young adults four and one-half years after high school, by high school program, sex, and race: October 1976

High school . program, sex and race	Percentage distribution during first week of October								
	Total	Working full-time	Working part-time	Working; laid off	Not working				
Total	· · · · · · · · · · · · · · · · · · ·			<del></del>					
General Academic ·	100.0 100.0	63.93	10.86	1.41	23.80				
Vocational	100.0	54.42 68.44	19.09 7.69	1.10 1.39	25.38 22.48				
Male	•								
eneral	100.0	75.07	9.52	1 00					
cademic	100.0	57.46	17.72°	1.33 1.02	14.09				
ocational	100.0	82.63	4.57	1.67	23.81 11.13				
Female	•								
eneral	100.0	51.82	12.34	1 /0	24				
cademic	100.0	51.17	20.65	1.48 1.20	34.36				
ocational	100.0	58,19	9.94	1.20	26.97 30.67				
Black									
eneral	100.0	59.45	11 /5						
ademic	100.0	55 <b>.</b> 22	11.45 15.93	1.67	27.42				
ocational	100.0	65.62	9.25	1.67 1.07	27.18 24.07				
White					24.07				
neral	100.0	64.88	10.86	1 07	••				
ademic	100.0	54.61	19.40	1.37	22.89				
ocational	100.0	69.17	7.26	1.01 1.40	24.98 22.17				

SOITH U.S. Department of Health, Education, and Welfare, National Center for Education StiERICs, Mational Longitudinal Study, Tabular Summary of the Third Follow-Up Question-

nai March 1978

Table 10.18
Percent of young adults not working four years after high school because of health problems or physical handicap, by high school program and sex: October 1976

High school program and sex	Percent
Total	
General	6.07
Academic	3.38
Vocational-technical	7.39
Male	
General	5.7.2
Academic	2.64
Vocational-technical	· 6.96
Female	
General	6.26
Academic	4.16
Vocational-technical	7.50

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-up Questionnaire Data, March 1978.

Table 10.19

Jobs held by young adults four and one-half years after high school, by high school program and sex: October 1976

Jób.		General:	· · · · · ·	nign	school pr	ogram			
,	Total	Male	Female	Total	Academic		Vocational-technical		
, <u></u>	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Temare	Total	Male	Female	Total	Male	Female
							<u> </u>		• • • •
v .	•		,	Percent	age distri	bution	4	·	
Total	100:00	100.00	100:00	100.00	100.00	100.00	100.00	100.00	100.00
Professional Administrative Sales Clerical Craftsman Operative Transportation Laborers Farmers Farm labor Service Household Not reported	10.60 7.03 5.65 23.02 14.28 13.63 4.25 5.55 .54 1.18 12.96 .31 1.00	8.66 8.63 5.07 10.51 22.94 14.67 6.95 8.54 .92 1.91 9.60 .00	13.47 4.59 6.29 40.98 1.91 12.20 .39 1.22 .00 .15 17.89 .77	26.43 8.29 6.84 24.99 8.31 5.34 2.31 3.66 .40 .62 11.09 .37	21.59 11.23 6.64 14.06 14.50 7.94 4.17 6.09 .66 1.03 9.86 .00 2.23	32.01 4.86 7.11 37.69 1.14 2.35 .17 .86 .11 15 12.46 .81	7.09 5.08 4.40 34.33 15.87 13.09 3.86 4.11 .59 .89 9.45 .37	7.20 6.91 3.61 7.78 31.06 18.66 7.59 7.47 1.13 1.64 5.36 .00	7.03 3.42 5.15 59.35 1.63 7.88 .40 .99 .00 .17 13.09 .72

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-Up Questionnaire Data, March 1978.

Table 10.20
Jobs held by young adults four and one-half years after high school, by high school program and race: October 1976

Jób.		General		:	gh school Academic		Vocat	ional-tech	nical
	Total	Black	White	Total	Black	White	Total	Black	White
				Percen	tage distr	ibution			
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Professional	10.60	10.81	11.10	28.43	19.11	27.08	<b>7.</b> 09	6.47	7.48
Administrative	7.03	2.48	7.65	6.29	3 <b>.</b> 81	8.53	5.08	2.35	5.61
Sales.	5.65	4.47	5.75	6.84	5.64	6.97	4.40	2.76	4.51
Clerical	23.02	25.72	22.02	24.99	33.75	24.10	34.33	35.38	34,44
Craftsman	14.28	9.15	15.06	8.31	4.90	8.64	15.87	9.91	16.48
Operative	13.63	18.59	13.04	5.34	9.96	4.98	13.09	16.71	12.42
Trạnsportation	4.25	2.53	4.27	2.31	1.71	2.40	3.86	2.96	3.80
Laborers	5 _° .55	6.79	5.48	3.66	2.16	3.93	4.11	4.44	4.04
Farmers	• 54	.00	.67	.40	.00	.43	.59	•00	.68
Farm labor	1,18	.43	1.39	.62	.00	.58	.89	.15	.96
Service	12.96	17.24	12.27	11.09	15.72	10.85	9.45	17.00	8.49
louseho1d	.31	۰38	. 34	.37	•08	.38	.37	.22	34
Not reported	1.00	1.41	.97	1.34	3.15	1.11	.87	1.65	.76

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-Up Questionnaire Data, March 1978.



Table 10.21

Educational attainment of employed young people four and one-half years out of high school, by high school program and by vocational area of current job: October 1976

High school	<del></del>	·	E	ducational atta	inment	-	
program and current vocational area	Total	Finish high school	Less than 2 years vocational	More than 2 years vocational	Less than 2 years college	More than 2 years college	College degree
		•		Percentage d	istribution	· · · · · · · · · · · · · · · · · · ·	,
General		:		•			•
Agriculture	100.0:	55.5·	12.3	6.2	10.0		
Office occupations	100.0	47.1	13.8	6.2	13.0	11.6	2.9
Distribution	100.0	69.9	15.7	3.1	18.3	13.6	4.1
Health	100.0	31.3	, .	1.2	6 <b>.</b> 0 -	7.2	6.0
Home economics	100.0	63.4	23.1	5.6	15.9	20.5	3.6
Trade and industrial	100.0		9.4	1.7	1064	13.4	1.7
and	.100.0	65.5	13.3	3.6	10.9	5.6	1.1
Academic							
Agriculture	100.0	23.8	4 1				
Office occupations	100.0	20.0	4.1	2.7	10.2	35.4	23.8
Distribution	100.0	13.6	6.0	3.0	18.3	29.2	23.6
Health	100.0		1.6	3.2	15.2	26.4	40.0
Home economics		6.0	7:4	12.2	9.9	32.3	32.1
Trade and industrial	100.0	21.5	2.8	1.0	15.8	36.9	22.1
ridge and ringustitat	100.0	26.4	8.0	5.9	22.0	25.8	12.0
ocational-technical		**					
Agriculture	100.0	71.0					
Office occupations	100.0	71.9	7.8	4.7	5.5	7.8	2.3
Distribution	, -	62.4	-15.3	2.9	12.1	6.1	1.2
Health	100.0	55.8	13.5	7.7	7.7	9.6	5.8
Home economics	100.0	47.4	22.7	7.2	10.3	9.3	3.1
	100.0	73.0	10.1	2.8	5.6	7.3	1.1
Trade and industrial	100.0	70.4	11.2	8.0	6.5	4.0	0.0

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Study, unpublished tabulations.

Study, unpublished tabulations.

Table 10.22 Satisfaction with education and training during the last year of school attended of young adults four years out of high school, by high school program, sex, and race: October 1976

•					,	
High school program, sex, and race	Total	Very satisfied	Some satisfaction	Neutral	Some dis- satisfaction	Very dis- satisfie
		COURSE	CURRICULUM		•	, -
Total		*				
General	100.0	18.05	44.56	18.06	14.79	4.54
Academic	100.0	23.14	47.74	9.71	15.81	3.60
Vocational ,	100.0	21,32	45.72	17.57	11.65	3.73
,	•					
Male						
General	100.0	16.04	44.68	20.01	14.79	4.48
Academic Vocational	100.0	21.68	47.14	11.60	15.57	4.02
70cacionas	100.0	17.71	46.37	20.31	11.57	4.04
Female						
General	100.0	20.28	44.39	15.88	14.87	4.59
Academic	100.0	24.79	48.51	7.57	16.10	3.64
Vocational	100.7.	23.97	45.32 .	15.35	11.82	3.55
Black						
General	100.0	17.84	49.65	17.39	10.96	4.16
Academic	100.0	22.73	48.29	10.99	14.22	3.78
Vocational	100.0	22.00	47.31	17.77	10.63	2.29
White						
General	100.0	18.24	44.27	17.48	15.41	4. 59
Academic	100.0	23.17	48.25	9.42	15.74	3.42
Voćational	100.0	21.40	45.66	16.81	12.25	3.88
		COUNSELING	OR JOB PLACEMENT			•
Total						
General	100.0	11.21	24.14	34.73	17.44	12.48
Academic .	100.0	9.75	21.59	36.20	19.47	13.00
ocational	1000	1.5.07	27.38	30.17	16.70	10.67
Male						
General	100.0	9.96	22.30	36.15	10 26	12 22
Academic	100.0	8.99	20.20	39.08	18.36 19.45	13.23 12.29
ocational	100.0	13.64	27.07	30.99	17.77	10.53
Female						
General	100.0	12.58	26.25		17.70	
Academic	100.0	10.58	23.11	33.27 33.04	16.43	11.47
ocátional	100.0	16.04	27.60	29.63	19.54 16.01	13.73
	,200,0	20004	27 000	27,03	10.01	10.72
Black	100.0	10.40	00.75			
General Academic	100.0	12.48	29.47	30.11	14.64	13.30
cademic Vocational	100.0	10.52	28.47	30.19	17.90	12,93
ocaeronar	. 100.0	14.84	33.36	22.16	20.41	. 9.24
White	_					
General	100.0	10.96	23.12	35.60	17.77	12.54
cademic	100.0	9.52	20.99	36.84	. 19.73	12.93
ocational _.	100.0	15.31	26.38	31.38	15.92	11.01

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ERIC U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National udinal Study, Tabular Summary of the Third Follow-Up Questionnaire Data, March 1978,

Table 10.23

Job satisfaction of young adults four years after high school, by sex and high school program: October 1976

Sex and program	Tótal	Very satisfied	Satisfied	Dissatisfied	Very dissatisfied
<del>, , , , , , , , , , , , , , , , , , , </del>		Per	centage distr	ibution	
	•	*	JOB AS A WHO	LE	
Male			•		
General	100.00	20.77	59.22	15.40	4.61
Academic	100.00	24.86	54.50	16.53	4:11
Vocational Female	100.00	24.67	58,42	12.16	4.75
General	100.00	25.03	- 57.82	12,84	4.3ĺ
Academic	100.00	26.84	53.26	15.79	4.11
Vocational	100.00	28.35	55.44	12.33	3,88
		JOB'S	IMPORTANCE AN	ID CHALLENGE	
Male			•		
General	100.00	20.55	51.94	19.95	<b>7.56</b>
Academic	100.00	24.01	46.21	21.51	8.27
Vecational Female	100.00	22.58	56.488	15.20	5.34
Ġeneraí	100.00	19.67	54.03	[*] 19.71	6.59
Academic	100.00	25.24	45.46	20.23	9.08
Vocational	100.00	2268	52.65	18.53	6.14
•		OPPORTUNITY T	O USE PAST TR	AAINING AND EDUCA	TION
Male				•	•
General	100.00	14.80	49.24	24.37	11,,59
Academic	100.00	21.09	42.26	22.60	14.05
Vocational Female	100.00	21.00	48.55	21.55	8.89
General	100.00	20.57	50.27	19.96	9.20
Academic	100.00	28.87	39.20	18.25	13.67
Vocational	100.00	23.29	51.05	17.97	7.69

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, <u>Tabular Summary of the Third Follow-up Questionnaire Data</u>, March 1978.



Table 10.24

Job satisfaction of young adults four years after high school, by race and high school program: October 1976

Race and high school program	Total	Very satisfied	Satisfied	Dissatisfied	Very dissatisfied
,	,	Percentage	distribution	1	
		JOB A	S A WHOLE		
' Black				* 	
General ,	100.00	14.00	62.82	17.39	E 70
Academic	100.00	16.82	57.01	19.99	5.79 6.19
Vocational White	100.00	16.61	61.59	14.82	6.98
General	100.00	23.47	58.13	14.16	4.24
Academic	100.00	26.41	53.53	16.10	4.24 3.96
Vocational	100,00	28.09	56.09	12.02	3.81
	•	JOB'S IMPORTA	NCE AND CHALL	ENGE	
Black					•
General	100.00	13.36	56.64	20.87	9.14
Academic	100.00	18.59	50.15	22.83	8.42
Vocational White	100.00	18.44	56.55	17.13	7.•88
General	100.00	21.01	52.23	20.04	6.72
Academic	100.00	24.80	45.58	20.95	8.67
Vocational	100.00	23.30	54.40	16.87	5.43
	OPPORTUN]	TY TO USE PAS	ST TRAINING A	ND EDUCATION	
Black					•
General	100.00	14.44	48.95	25.11	11.50
Academic	100.00	22.44	39.96	23.45	14:15
Ocational White	100.00	18.38	47.01	25.42	9.19
General	100.00	17.64	49.46	22.35	10.55
Academic	100.00	24.86	40.78	20.54	13.82
ocational	, 100.00	22.96	49.73	19.17	8.13

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-up Questionnaire Data, March 1978.

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Table 10.25 Occupation of employed persons 16 years old and over, by years of school completed: March 1978

	Total	<del></del>	<del></del>	<del></del>	Years	of school		ed		<u>-</u>	Median
•				entary	<u> </u>	High so	chool		<b>ollege</b>	Lary L	school
Occupational group	employed (thousands)	Total	Less than 5 years	5 to 7;	8	1 to 3	4	1 to 3	4	5 or more	years completed
•	. ,			•	· P	ercentage	distribu	tion			<del>- , -</del>
Both Sexes			x x								,
All occupational groups	91,964	100.0	1.4	3.3	4.8	15.7	39.7	17.4	10.3	7.4	12.6
Professional and technical Managers and administrators	14,303	100.0	.1	.2	.3	1.6	14.3	19.0	30.7	33.8	16.5
ales	10,182 5,908	100.0	.4 .3	1.2 1.0	2.7 2.5	8.0 13.5	35.0 38.1	22.4 24.2	19.2 16.1	11.2	13.4
lerical raft	16,556	100.0	.1	.6	1.5	9.7	56.1	23.7	6.6	4.2 1.7	12.9 12.7
peratives	11,720 10,511	100.0 100.0	1.6 3.3	4.5 7.5	7.0 9.3	17.8 26.4	49.5 44,3	15.8	3.1	.7	12.4
ransportation onfarm laborers	3,409	100.0	1.9.	5•7·	9.2	23.2	46.4	7.7 11.2	1.4 2.0	.3 .6	12.1 12.2
rivate household workers	4,314 1,142`	100.0 100.0	4.0 6.2	წ.9 11.5	7.8 10.9	30.9 37.1 ~	× 37.0	11.5	1.5	.4	12.0
ervice workers	11,484	100.0	1.9	4.9	7.0	27.1	-24.5 39.8	8.3 15.5	.9 3.0	.5 .6	10.8 12.2
arm workers	2,434	100.0	7.3	9.3	11.6	19.1	37.3	9.2	4.5	1.7	12.1

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Educational Attainment of Workers -- Some Trends from 1973 to 1978, Special Labor Force Report 225.

Table 10.25
Labor force entrance of college graduates, by major occupational group:
March 1962 to March 1969 and March 1969 to March 1976

2 · · · · · · · · · · · · · · · · · · ·	1962 to	1969	1969 to	1976
Occupational group	Number (in thousands)	Percentage distribution	Number (in thousands)	Percentage distribution
Total	4,017	100.0	8,096	100.0
Professional and technical	2,915	72.6	3,751	46.1
Managers and administrators	686	17.1	1,498	18.4
Sales	117	3.9	680	8.4
Clerical	121	3.0	858	10.5
Craft	99	2.5	256	3.1
<b>Operatives</b>	21	.5	165 ⁻	2.0
Nonfarm laborers	4	.1	80	
Service	.21	•5	373	1.0
Farmworkers	12			4.6
Unemployed	4	.2 .1	94 250	1.2 4.7

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Educational Attainment of Workers, March 1962, 1969, and 1976, Special Labor Force Reports Nos. 30, 125, and 193.

Table 10.27
Field of training for persons 18 years old and over with vocational school experience, by labor force status, current occupation, and sex: October 1976

(Numbers in thousands, Civilian noninstitutional population)

	Total with	•		F1	eld of voc	ational trai	ning		
Labor force status, current occupation, and sex	vocational school experience 1/	Percent	Agri- culture	Sales	Health	llome economics	Office	Technical	Trades
Total men 2/	3,108	100.0	2.4	11.5	6.0	0.8	14.1		
In civilian labor force.	2,900	100.0	2.4	11.7	5.9	0.8		17.8	47.4
Employed	2,715	100.0	2.5	11.9	6.2	· 0.8	14.6	17.7	47.0
Professional, technical,					0.2	, 0.0	14.8	18.1	45.8
and kindred workers	547	106.0	0.4	3.8	19.4	0.5	10.0		
Managers and administrators			•••	3.0	17.4	0.5	18.8	38.9	18.3
except farm	331	100.0	2.1	27.5	2.4				
Sales' workers	224	100.0	1.3	63.8	0.9	1.8	27.2	17.2	21.8
Clerical and kindred			5	03.0	0.9	1.3	12.5	5.8	14.3
workers	170	100.0		11.8	1.8				
Craft and kindred workers	671	100.0	1.2	2.8		~~	31.8	20.7	33.5
Transport equipment		20000	***	2.0	2.8	0.3	6.0	13.1	73.9
operatives	85	100.0	7.1	7 1	1 2				
Operatives except		20010	7.1	7.1	1.2	~~	3.5	12.9	67.1
transport	257	100.0	1 2	, ,					
Service workers except		100.0	1.2	4.3	0.8		14.8	16.0	63.0
private household	24Š	100.0	1.						
Farm workers	63		1.6	3.3	9.8	2.9	9.8	8.6	64.1
Laborers except farm	126	(B) 100.0	(B)	(B)	(B)	(B)	(B)	(E)	(B)
Not in civilian labor	120	100.0	5.6	4.0	1.6		15.9	8.7	65.1
force	208	100.0	1.9	9.6	7.7	1.4	ޕ2	19.7	52.9
Total women 2/	0.010					*			3247
In education labor for	2,849	100.0	1.4	9.4	19.9	5.9	36.5	10.5	16.4
In civilian labor force.	2,073	100.0	1.3	10.7	19.7	5.2	37.8	12.1	13.4
Employed	1,840	1:)0.0	1.3	11.7	20.3	5.5	35.2	12.7	13.3
Professional, technical,							3512	12.7	13.3
and kindred workers	444	100.0	1.1	4.7	34.9	3.4	14,9	32.0	9.2
Managers and administrators						•••	-432	32.0	7.2
except farm	132	100.0	3.8	23.5	7.6	15.2	31.8	9.1	.9.1
Sales workers	157	100.0		61.8	3.2	1.9	19.7	3.2	10.2
Clerical and kindred							27.7	3.2	10.2
workers	664	100.0		9.2	8.7	3.9	61.4	20.6.	0.3
Craft and kindred workers	18	(B)	(B)-	(B)	(B)	(B)	(B)		8.3
Transport equipment			• •	<b>\-</b> /	\-/	(5)	(6)	(B)	(B)
operatives	11	(B)	(B)	(B)	.(B)	(B)	(B)	(n)	/=\
Operatives except			<b>1</b> -7	\- <i>,</i>	.(2)	(5)	(6)	(B)	(B)
transport	56	(B)	(B)	(Ė)	(B)	(P)	<b>(</b> 2)	4=3	
Service workers except		<b>\-</b> /	\-/	(0)	(6)	(B)	(B)	(B)	(B)
private household	333	100.0	2.4	0.9	40.8	0.3	17 /		
Parm workers	18	(B)	(B)	(B)		9.3	17.4	2.4	26.4
aborers except farm	11	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)
Not in civilish labor		(0)	(8)	(0)	(B)	(B)	(B)	(B)	(B)
force	776	100.0	1.8	6.1	20.6	7.9	33.0	6.2	24.5

⁻⁻ Represents zero or rounds to zero.

SOURCE: U.S. Department of Commerce, Bureau of the Census, <u>Vocational School Experience</u>: <u>October 1976</u>, Series P-20, No. 343, September 1979.



B Base less than 75,000.

^{1/} Excludes all persons with vocational field not elsewhere classified and not reported.

^{2/} Includes those who attended vocational school in October 1976 or during the preceding 12 months.

Table 10.28 Occupational goals of high school seniors, by high school program: 1972

	High school program  Academic General Vocationa						
Occupational goal	Academic	General	Vocationa				
	Weighted	percentage	of students				
Tòtal	100,0	100.0	100.0				
lerical such as bank teller,			•				
bookkeeper, secretary, typist,							
mail carrier, ticket agent	.5.6	14.1	35.6				
Craftsman such as baker, automobile	•						
mechanic, machinist, painter,							
plumber, telephone installer,							
carpenter	3.2	10.5	14.6				
armer, farm manager	1.1	2.2	1.8				
omemaker or housewife	1.8	4.7	. 3.8				
aborer such as construction worker,	.,,	•					
car washer, sanitary worker.		_					
farm laborer	1.4	3.8	3.5				
lanager, administrator, such as sales	•	,					
manager, office manager, school							
administrator, buyer, restaurant							
manager, government official	3.5	3.0	2.3				
Elitary suchwas career officer,	,	•					
enlisted man or woman in the							
Armed Forces	1.9	3.4	2.4				
perative such as meat cutter;		•					
assembler; machine operator;							
welder; taxicab, bus, or truck							
driver; gas station attendant	1.2	3.0	3.9				
rofessional such as accountant,							
artist, clergyman, dentist,		•					
physician, registered nurse,							
engineer, lawyer, librarian,							
teacher, writer, scientist,							
social worker, actor, actress	65.8	32.2	13.5				
roprietor or owner such as owner of							
& small business, contractor,							
restaurant owner	1.5	2.7	1.5				
rotective service such as detective,							
policeman or guard, sheriff;		_					
fireman	1.7	3.5	1.7				
ales such as salesman, sales clerk,							
advertising or insurance agent,							
rèal estate broker	2.4	3.8	3.5				
ervice such as barber, beautician,							
practical nurse, private							
household worker, janitor, waiter	2.4	6.2	56				
echnical such as draftsman, medical							
or dental technician, computer		7.4					
programmér.	6.6	7.0	6.4				

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Student Questionnaire and Test Results by Sex, High School Program, Ethnic Category, and Father's Education, 1975.



Table 10.29.
Job. expectations at age 30 of young adults four and one-half years out of high school, by high school program and race:
October 1976

Percentage distribution   Total   Black   White   Total   To	Occupational				High	school pr	ogram			
Percentage distribution  Total 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00		Total	General					Voca	tional-tech	nical
Percentage distribution  Total 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00  Clerical 9.03 15.30 8.01 5.06 9.10 4.75 17.78 23.16 17.78  Craftsman 11.20 5.73 11.94 4.71 3.86 4.78 12.47 9.57 12.8  Farmer 2.26 40 2.61 1.45 .25 1.54 2.17 .41 2.4  Homemaker 14.35 6.90 15.52 7.23 2.91 7.73 18.97 8.51 20.8  Laborer 3.64 2.39 3.57 .99 1.03 .93 3.33 2.63 3.4  Administrator 7.89 8.47 7.94 12.07 11.63 12.20 6.73 6.89 6.8  Military 1.25 2.42 1.08 1.67 2.73 1.60 1.45 1.88 1.4  Operative 6.53 6.34 6.70 1.64 3.39 1.45 5.85 4.21 5.7  Professional 7 15.54 21.03 14.85 27.61 28.21 27.63 10.70 16.20 9.8  Professional 9.447 4.52 4.30 14.64 15.31 14.32 1.72 2.90 1.7  Professional 1.4 4.57 4.37 4.59 4.30 14.66 1.56 1.97 1.29 1.9  School teacher 4.38 5.22 4.32 1.52 1.46 1.56 1.97 1.29 1.9  School teacher 4.38 5.22 4.32 8.54 6.46 8.79 1.95 3.09 1.7  Everytage 1.57 1.84 2.77 2.30 1.32 2.26 1.75 1.58 1.8  Service 2.74 5.62 2.28 1.01 2.01 .88 2.90 5.71 2.5  Technical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.5		IOCAT	втаск	White	Total.	Black	White		Black	White
Total 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100				7	* ****	V 29 2	<del></del>	- <del> </del>	1 114 - 1	** ***
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Ramer 2.26 .40 2.61 1.45 .25 1.54 2.17 .41 2.4   Romemaker 14.35 6.90 15.52 7.23 2.91 7.73 18.97 8.51 20.6   Raborer 3.64 2.39 3.57 .99 1.03 .93 3.33 2.63 3.4   Romemaker 7.89 8.47 7.94 12.07 11.63 12.20 6.73 6.89 6.6   Romemaker 7.89 8.47 7.94 12.07 11.63 12.20 6.73 6.89 6.6   Romemaker 7.89 8.47 7.94 12.07 11.63 12.20 6.73 6.89 6.6   Romemaker 8.47 8.51 8.47 8.51 8.51 8.51 8.51 8.51 8.51 8.51 8.51		11.20								
Somemaker		2.26								
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rofessional 1/2	perative ,									1,45
Professional 27 4.47 4.52 4.30 14.64 15.31 14.32 1.72 2.90 1.77 (choc tive Service 2.24 1.02 2.32 1.52 1.46 1.56 1.97 1.29 1.98 (chool teacher 4.38 5.22 4.32 8.54 6.46 8.79 1.95 3.09 1.76 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 (choc tive Service 2.74 5.78 (choc tive Service 2.7	rofessional 1/				27.61					5.76
roprietor 6.08 4.43 6.24 4.12 3.01 4.21 4.93 4.37 4.97 rotective Service 2.24 1.02 2.32 1.52 1.46 1.56 1.97 1.29 1.98 ales 2.57 /1.84 2.77 2.30 1.32 2.26 1.75 1.58 1.80 chool teacher 4.38 5.22 4.32 8.54 6.46 8.79 1.95 3.09 1.75 ervice 2.74 5.62 2.28 1.01 2.01 88 2.90 5.71 2.58 echnical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.58 conserving a service 3.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2	rofessional ² /									9.83
rotective Service 2.24 1.02 2.32 1.52 1.46 1.56 1.97 1.29 1.9  ales 2.57 1.84 2.77 2.30 1.32 2.26 1.75 1.58 1.8  chool teacher 4.38 5.22 4.32 8.54 6.46 8.79 1.95 3.09 1.7  ervice 2.74 5.62 2.28 1.01 2.01 .88 2.90 5.71 2.5  echnical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.5										1.70
ales     2.57     1.84     2.77     2.30     1.32     2.26     1.75     1.58     1.8       chool teacher     4.38     5.22     4.32     8.54     6.46     8.79     1.95     3.09     1.7       ervice     2.74     5.62     2.28     1.01     2.01     .88     2.90     5.71     2.5       echnical     4.19     6.32     4.05     4.59     6.45     4.53     3.79     6.08     3.5										4.98
chool teacher     4.38     5.22     4.32     8.54     6.46     8.79     1.95     3.09     1.7       ervice     2.74     5.62     2.28     1.01     2.01     .88     2.90     5.71     2.5       echnical     4.19     6.32     4.05     4.59     6.45     4.53     3.79     6.08     3.5										1.93
ervice 2.74 5.62 2.28 1.01 2.01 .88 2.90 5.71 2.5 echnical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.5										1.84
echnical 4.19 6.32 4.05 4.59 6.45 4.53 3.79 6.08 3.5										1.76
0.05 3.59 0.08 3.5										2.53
1.65 2.05 1.49 .85 .87 .84 1.54 1.53 1.6	ot working	1.65	2.05	1.49	4.39 85	6.45 .87	. 4.53 .84	3.79 1.54		3.58 ⁻ 1.67

^{1/}Professional such as accountant, artist, registered nurse, engineer, librarian, writer, social worker, actor, actress, athlete, politician, but not including public school teacher.

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SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, Tabular Summary of the Third Follow-Up Questionnaire Data, March 1978.

^{2/}Professional such as clergyman, dentist, physician, lawyer, scientist, college teacher.

^{1/}Professional such as accountant, artist, registered nurse, engineer, librarian, writer, social worker, actor, actress, athlete, politician, but not including public school teacher.

^{2/}Professional such as clergyman, dentist, physician, lawyer, scientist, college teacher.

NOTE: Details may not add to totals because of rounding.

SOURCE: U.S. Department of Health, Education, and Welfare, National Center for Education Statistics, National Longitudinal Study, <u>Tabular Summary of the Third Follow-Up</u> Questionnaire Data. March 1978.